



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-147612) RESULTS OF A LANDING GEAR
LOADS TEST USING A 0.0405-SCALE MODEL (16-0)
OF THE SPACE SHUTTLE ORBITER IN THE ROCKWELL
INTERNATIONAL NAAL WIND TUNNEL (OA163),
VOLUME 2 (Chrysler Corp.) 749 p

N77-13131

HC A99
MF A01

Unclass

G3/16 58471



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



November 1976

DMS-DR-2289
NASA CR-147,612

VOLUME 2 OF 4

RESULTS OF A LANDING GEAR LOADS TEST
USING A 0.0405-SCALE MODEL (16-0) OF THE
SPACE SHUTTLE ORBITER IN THE ROCKWELL
INTERNATIONAL NAAL WIND TUNNEL (OA163)

by

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Prepared under NASA Contract Number NAS9-13247

by

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for

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Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: NAAL 751
NASA Series Number: OA163
Model Number: 16-0
Test Dates: November 25 through December 9, 1975
Occupancy Hours: 144

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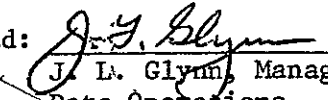
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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF A LANDING GEAR LOADS TEST
USING A 0.0405-SCALE MODEL (16-Ø) OF THE
SPACE SHUTTLE ORBITER IN THE ROCKWELL
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R. Mennell
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ABSTRACT

Experimental aerodynamic investigations were conducted on a sting mounted .0405 scale representation of the 140C outer mold line space shuttle orbiter configuration in the Rockwell International 7.75 x 11.00 foot low speed wind tunnel during the time period from 25 November 1975 to 9 December 1975. NASA designation for this test period was 0A163. Facility designation was NAAL 751.

The primary test objectives were to define the orbiter landing gear system pressure loading and to record landing gear door and strut hinge-moment levels.

Secondary objectives included recording the aerodynamic influence of various landing gear configurations on orbiter force data as well as investigating 40' x 80' Ames Wind Tunnel strut simulation effects on both orbiter landing gear loads and aerodynamic characteristics.

Testing was conducted at a Mach number of 0.17, free stream dynamic pressure of 42.5 PSF, and Reynolds number per unit length of 1.2×10^6 per foot. Angle of attack variation was 0 to 20 degrees while yaw angles ranged from -10 to 10 degrees.

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TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	5
CONFIGURATIONS INVESTIGATED	8
TEST FACILITY DESCRIPTION	10
DATA REDUCTION	11
REMARKS	13
REFERENCE	14
TABLES	
I. TEST CONDITIONS	15
II. DATA SET/RUN NUMBER COLLATION SUMMARY	16
III. MODEL DIMENSIONAL DATA	17
FIGURES	
MODEL	31
DATA	45
APPENDIX - TABULATED SOURCE DATA	
FORCE DATA (VOLUME 1)	
PRESSURE DATA (VOLUMES 2, 3, & 4)	45

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS NOT

INDEX OF MODEL FIGURES

Figures	Title	Page
1.	Axis Systems and Sign Conventions.	
a.	Axis Systems.	31
b.	Sign Convention for Control Surfaces.	32
2.	Model sketches.	
a.	NAAL Tunnel Installation.	33
b.	Model Base Pressure Instrumentation.	34
c.	Sign Convention for Landing Gear.	35
d.	L.H. NLG Door Pressure Instrumentation.	36
e.	L.H. MLG Door Pressure Instrumentation.	37
f.	L.H. MLG Strut Pressure Instrumentation.	38
g.	Typical Landing Gear Strut Strain Gage Instrumentation.	39
h.	Typical Landing Gear Door Strain Gage Instrumentation.	40
3.	Model photographs.	
a.	NAAL Installation, Front View, Model Configuration B68C12G20M16N28W127E55F10V8R5X9.	41
b.	NAAL Installation, Rear View, Model Configuration B68C12G20M16N28W127E55F10V8R5X9.	41
c.	NAAL Installation, Bottom View, Model Configuration B68C12G20M16N28W127E55F10V8R5X9.	42
d.	Nose Landing Gear, $\theta_N = 108^\circ$, $\phi_N = 66^\circ$.	42
e.	Main Landing Gear, $\theta_M = 35^\circ$, $\phi_M = 88^\circ$.	43
f.	NAAL Installation, Side View, Model Configuration B68C12G20M16N28W127E55F10V8R5X9. + 40' x 80' Strut Simulation.	43

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	CONDITION VARYING	PLOTTED COEFFICIENT SCHEDULE	PAGE
4	LONGITUDINAL AERODYNAMIC COEFFICIENTS	BETA, CONFIGURATION, ELEVON, BDFLAP, SPDBRK	A	1-136
5	LATERAL DIRECTIONAL AERODYNAMIC COEFFICIENTS	ALPHA, CONFIGURATION, ELEVON, BDFLAP, SPDBRK	B	137-241
6	ORBITER L.H. NOSE LANDING GEAR DOOR HINGE MOMENT	BETA, ALPHA	C	242-247
7	ORBITER NOSE LANDING GEAR STRUT HINGE MOMENT	BETA, ALPHA	D	248-253
8	ORBITER L.H. MAIN LANDING GEAR DOOR HINGE MOMENT	BETA, ALPHA	E	254-259
9	ORBITER L.H. MAIN LANDING GEAR STRUT HINGE MOMENT	BETA, ALPHA	F	260-265
10	HINGE MOMENT COEFFICIENTS - LANDING GEAR RETRACTED	BETA	G	266-269
11	HINGE MOMENT COEFFICIENTS - LANDING GEAR FULLY DEPLOYED	BETA	G	270-273
12	HINGE MOMENT COEFFICIENTS W/GROUND PLANE - LANDING GEAR FULLY DEPLOYED	BETA	G	274-281
13	HINGE MOMENT COEFFICIENTS W/GROUND PLANE AND SIMULATED SUPPORT STRUTS	BETA	G	282-285

INDEX OF DATA FIGURES (Concluded)

PLOTTED COEFFICIENTS SCHEDULE:

- A) C_{A_D} , C_{A_F} , C_N and C_m versus α
- B) C_Y , $C_n(\text{BODY})$ and $C_\ell(\text{BODY})$ versus β
- C) $C_{h_{ND}}$ versus ϕ_N
- D) $C_{h_{NS}}$ versus θ_N
- E) $C_{h_{MD}}$ versus ϕ_M
- F) $C_{h_{MS}}$ versus θ_M
- G) $C_{h_{ND}}$, $C_{h_{NS}}$, $C_{h_{MD}}$ and $C_{h_{MS}}$ versus α

NOMENCLATURE
General

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³
<u>Reference & C.G. Definitions</u>		
Ab		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
<u>SUBSCRIPTS</u>		
b		base
l		local
s		static conditions
o		total conditions
∞		free stream

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
A_{BC}		balance cavity area, ft. ² .
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
$C_n(\text{BODY})$	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$, body axis
$C_l(\text{BODY})$	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$, body axis
$C_{h_{XY}}$	CHMXY	landing gear door or strut hinge moment coefficient = $\frac{H_{MXY}}{qS l_B} * 1000$
HMXY	HMXY	landing gear door or strut hinge moment, in-lbs
XY	XY	letter designation for landing gear component = NS, nose landing gear strut = MS, main landing gear right hand strut = ND, nose landing gear right hand door = MD, main landing gear right hand door
	DUMMY1	artificial geometric variable/dimension
	DUMMY2	used as second dimension in datasets containing perimeter and strut pressure taps
		fuselage reference length, in

NOMENCLATURE (Concluded)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
	TAP	pressure tap number, Figures 2d,e,f give locations
	X/CML	longitudinal position along main landing gear door, as a fraction of it's length
	X/CNL	longitudinal position along nose landing gear door, as a fraction of it's length
	Y/BML	lateral position across main landing gear door, as a fraction of it's reference width
	Y/BNL	lateral position across nose landing gear door, as a fraction of it's reference width
δ_{bf}	BDFLAP	body flap deflection, degrees
δ_e	ELEVON	elevon deflection, degrees
δ_{sb}	SPDBRK	speed brake deflection, degrees
θ_N	THETAN	nose landing gear strut position, degrees
θ_M	THETAM	main landing gear strut position, degrees
ϕ_N	PHI-N	nose landing gear door position, degrees
ϕ_M	PHI-M	main landing gear door position, degrees
ϕ_P		main landing gear strut pressure orifice location, degrees
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{Db}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{Df}	CDF	forebody drag coefficient; $C_D - C_{Db}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$, stability axis
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$, stability axis
	XCP/L	center of pressure location referred to ℓ_b

CONFIGURATIONS INVESTIGATED

The model provided for test period OA163 was an .0405-scale representation of the 140C space shuttle orbiter outer mold line configuration. The basic model was of the blended wing-body design utilizing a double delta wing ($75^\circ/45^\circ$ A.L.E.), full span, dual panel elevons (unswept hinge-line and 6" gaps), a centerline vertical tail with rudder and/or speed brake deflection capability, a canopy, a body flap, and an orbital maneuvering system (OMS pods) mounted on the aft fuselage sidewalls adjacent to the vertical tail. Landing gear simulation consisted of both nose and main landing gear systems each with the deployment capability from full up to full down.

Both the nose and main landing gear systems were instrumented with static pressure measuring orifices and hinge moment beams as illustrated in figures 2c through 2h.

For this test period the following nomenclature was used to designate various model components:

<u>Component</u>	<u>Description</u>
B68	140C orbiter fuselage with air vent door and vent door probe simulation
C12	140C orbiter canopy
E55	140C orbiter dual panel elevons
F10	140C orbiter body flap
G20	140C orbiter nose and main landing gear system simulation
M16	140C orbiter OMS/RCS pods

CONFIGURATIONS INVESTIGATED (Concluded)

<u>Component</u>	<u>Description</u>
N28	140C orbiter OMS nozzles
W127	140C orbiter double delta wing
R5	140C orbiter rudder
V8	140C orbiter centerline vertical tail
X9	transition grit

Designated configurations are:

O ≡ B68 C12 E55 F10 M16 N28 R5 V8 W127 X9

GP ≡ Ground plane installed

SS ≡ Strut simulation (40' x 80' Ames Wind Tunnel)

TEST FACILITY DESCRIPTION

North American Aerodynamics Laboratory (NAAL) 7.75 x 11-foot Wind Tunnel is a continuous flow, closed circuit, single return tunnel capable of speeds up to 200 miles per hour.

The test section is vented to atmospheric pressure and is 7.75 x 11 feet wide and 12 feet long. Power is supplied by a 1250-horsepower nacelle-mounted synchronous motor driving a 19-foot, seven-blade, laminated birch propeller. Airspeed is controlled by using a magnetic clutch to vary the degree of coupling between the motor and propeller. Turbulence is minimized by a damping screen and a honeycomb section in the settling chamber upstream from the contraction cone (ratio 7.53 to 1).

Tests may be conducted using a variety of mounting systems: single strut, double strut, sting strut, reflection plane, cable suspension, or two-dimensional wall. Aerodynamic data may be measured by a planar type external balance system or sting-mounted internal balances. An Astrodata Automatic Data Acquisition System collects, multiplexes, digitizes, and records on magnetic tape 50 channels of force or pressure data or both. Data are then reduced and plotted using automatic data processing equipment and an automatic digital plotter.

The NAAL Wind Tunnel has been operating since June 1943. Calibrations are available over a wide range of test conditions.

DATA REDUCTION

The aerodynamic force data presented in this report was measured by the Task Corporation 2.5 inch MK IX six-component strain gage balance. All steady state static pressures were measured by ± 2.5 psid Statham differential pressure transducers installed in a four-pack model mounted scanivalve referenced to tunnel static pressure. Landing gear strut and door hinge moment loads were measured from single beam, bearing mounted strain gages.

Corrections applied to the aforementioned data were test section wall effects on model aerodynamic coefficients, model tunnel blockage effects on test section dynamic pressure, model base pressure drag effects on model angle of attack and angle of sideslip.

Nose and main landing gear door static pressure tap locations are presented non-dimensionalized by landing gear door total chord or span. The coordinate systems used have origins at the forward outer corner of each respective door. Tap locations about the door perimeters and left main landing gear are presented by tap number only.

The following reference dimensions and constants were used in data reduction:

<u>Symbol</u>		<u>Model Scale</u>	<u>Full Scale</u>
A_b	area of model base, (not including A_{BC}), ft^2	0.5885	
A_{BC}	area of balance cavity, ft^2	0.0985	
b	wing span, in.	37.9356	936.68

DATA REDUCTION (Concluded)

<u>Symbol</u>		<u>Model Scale</u>	<u>Full Scale</u>
b _{ML}	left main landing gear door reference span, in.	2.794	68.99
b _{NL}	left nose landing gear door reference span, in.	1.154	28.49
\bar{c}	wing MAC, in.	19.2300	474.81
c _{ML}	left main landing gear door reference chord, in.	6.116	151.01
c _{NL}	left nose landing gear door reference chord, in.	4.393	108.47
S	wing area, ft ²	4.4123	2690.00
XMRP	reference C.G., fus. sta.	43.6055	1076.68
ZMRP	reference C.G. waterplane	15.1875	375.00
l _B	orbiter body length, in.	52.2572	1290.30

The plotted and tabulated data are arranged in the following manner:

VOLUME NO.

1	Data Figures Tabulated Force Data Tabulated Pressure Data	Fourth Character *
2	Nose landing gear door outer surface Nose landing gear door inner surface	N E
3	Main landing gear door outer surface Main landing gear door inner surface	M F
4	Nose and main landing gear door perimeter Main landing gear strut	P W

* The fourth character in each dataset identifier (i.e., RFFPXX, for perimeter) represents the individual component.

REMARKS

All landing gear pressure data obtained in this test program showed good agreement with predicted data trends and evidenced excellent repeatability. No anomalies occurred in their acquisition or reduction.

Likewise, excellent behavior was experienced with main balance and landing gear door hinge moment data. These were acceptable for immediate reduction and presentation after the test.

Nose gear strut trunnion-moment outputs were also notable for their repeatability and consistency with expected trends, although the absolute magnitude of these loads data was almost double what had been predicted prior to the test.

Main gear strut trunnion-moments also exhibited exceptional repeatability, both in testing and in all pre- and post-test calibrations. However, unusual behavior was observed in the data obtained for the full-down strut position (and somewhat at the 80° setting). Plots of hinge moment versus strut position showed a hook in the vicinity of the fully extended position. After close examination, this was attributed to the fully-extended main gear drag link taking up part of the strut load when the strut was deflected under load. Initial calibrations of the strut hinge moment gage were done with the drag link removed. The gage was recalibrated with the drag link installed. This calibration was used again to reduce the test data. These data are presented in this report.

REFERENCE

AD75-SH-0238, "Pretest Information For A Landing Gear Loads Test (OA163) Of The 0.0405-Scale Model Of The Space Shuttle Orbiter In The Rockwell International NAAL Wind Tunnel (Model 16- ϕ)," November 10, 1975.

TABLE I

[illegible]

TABLE II.

TEST: <u>QA163</u>			DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: <u>FEB. '76</u>								
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS								BETA									
		B	α	M	SE	SBE	SSB	ϕ_N	θ_N	ϕ_M	θ_M	-10	-5	-2	0	2	5	10			
<u>RFF: 01</u>	<u>0</u>	<u>F</u>	<u>A</u>	<u>.17</u>	<u>0°</u>	<u>0°</u>	<u>25°</u>	<u>0°</u>	<u>0°</u>	<u>0°</u>	<u>0°</u>	<u>5</u>	<u>4</u>		<u>1</u>		<u>3</u>	<u>2</u>			
<u>102</u>								<u>.26</u>		<u>.23°</u>		<u>10</u>	<u>9</u>		<u>8</u>		<u>7</u>	<u>6</u>			
<u>03</u>								<u>2</u>		<u>2</u>		<u>15</u>	<u>14</u>		<u>13</u>		<u>12</u>	<u>11</u>			
<u>04</u>								<u>4</u>		<u>4</u>	<u>↓</u>	<u>20</u>	<u>19</u>		<u>18</u>		<u>17</u>	<u>16</u>			
<u>05</u>								<u>6</u>	<u>↓</u>	<u>6</u>	<u>1.1</u>	<u>25</u>	<u>24</u>		<u>23</u>		<u>22</u>	<u>21</u>			
<u>06</u>								<u>8</u>	<u>1</u>	<u>8</u>	<u>↓</u>	<u>30</u>	<u>29</u>		<u>28</u>		<u>27</u>	<u>26</u>			
<u>07</u>								<u>10</u>	<u>1.3</u>	<u>10</u>	<u>1.6</u>	<u>35</u>	<u>34</u>		<u>33</u>		<u>32</u>	<u>31</u>			
<u>08</u>								<u>15</u>	<u>2</u>	<u>15</u>	<u>2.4</u>	<u>156</u>	<u>157</u>		<u>155</u>		<u>158</u>	<u>159</u>			
<u>09</u>								<u>20</u>	<u>2.9</u>	<u>20</u>	<u>3.1</u>	<u>150</u>	<u>151</u>		<u>152</u>		<u>153</u>	<u>154</u>			
<u>10</u>								<u>30.8</u>	<u>5</u>	<u>32.2</u>	<u>5</u>	<u>50</u>	<u>49</u>		<u>48</u>		<u>47</u>	<u>46</u>			
<u>11</u>								<u>↓</u>	<u>↓</u>	<u>40</u>	<u>6.2</u>	<u>51</u>	<u>52</u>		<u>53</u>		<u>54</u>	<u>55</u>			
<u>12</u>								<u>50</u>	<u>9.8</u>	<u>48.3</u>	<u>↓</u>	<u>56</u>	<u>57</u>		<u>58</u>		<u>59</u>	<u>60</u>			
<u>13</u>								<u>66</u>	<u>20</u>	<u>70</u>	<u>11.2</u>	<u>62</u>	<u>63</u>		<u>67</u>		<u>68</u>	<u>69</u>			
<u>14</u>									<u>↓</u>	<u>88</u>	<u>20</u>	<u>70</u>	<u>71</u>		<u>72</u>		<u>73</u>	<u>74</u>			
<u>15</u>									<u>35°</u>		<u>35</u>	<u>75</u>	<u>76</u>		<u>77</u>		<u>78</u>	<u>79</u>			
<u>16</u>								<u>50</u>		<u>50</u>		<u>80</u>	<u>81</u>		<u>82</u>		<u>83</u>	<u>84</u>			
<u>17</u>								<u>65</u>		<u>65</u>		<u>85</u>	<u>86</u>		<u>87</u>		<u>88</u>	<u>89</u>			
<u>18</u>								<u>80</u>		<u>80</u>		<u>90</u>	<u>91</u>		<u>92</u>		<u>93</u>	<u>94</u>			
		1	7	13	19	25	31	37	43	49	55	61	67	75	76						
CL		CDF	CLM	CN	CAF	CLN	CSL	CY	XCP/L	CAB	BETA	ALPHA									
α OR β		<u>$\alpha(A) = 0 \rightarrow 10^\circ, \Delta\alpha = 2^\circ$</u>										<u>$\alpha(C) = 0 \rightarrow 20^\circ, \Delta\alpha = 5^\circ$</u>									
SCHEDULES		<u>$\alpha(B) = 0, 2, 4, 5, 6, 8, 10, 15, 20$</u>										<u>$\beta(D) = -10, -5, -2, 0, 5, 10$</u>									
		COEFFICIENTS										IDVAR (1) IDVAR (2) NDV									

TABLE II. - Continued.

TEST: 0A163		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: FEB. '76						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS								BETA						
		R	α	M	δ_E	δ_{BF}	δ_{SB}	ϕ_N	θ_N	ϕ_M	θ_M	-10	-5	-2	0	2	5	10
RFF 19	0	F	A	.17	0°	0°	25	66	95	88	98	145	146		147		148	149
1-20					↓	↓			108			130	131		132		133	134
21					5	71.7						105	106		107		108	109
22					↓	0						110	111		112		113	114
23					10	↓	↓					135	136		137		138	139
24					↓	71.7	85					140	141		142		143	144
25					0	15	25					129	128		127		126	125
26	↓	↓	↓			10	↓					160	161		162		163	164
27	0 + GP	E	B			71.7	0					165	166	167	168	169	170	171
28	↓				↓		85					172	173	174	175	176	177	178
29	↓	↓			10		0					179	180	181	182	183	184	185
30	↓	D	↓		-10							186	187	188	189		190	191
↓ 31	0 + GP + SS	F	C	↓	0	↓	↓	↓	↓	↓	↓							
											0	200	199		192		209	210
											5	201	198		192		208	211
											10	202	197		192		207	212
											15	203	196		193		206	213
											20	204	195		194		205	215
CHMND. CHMNS. CHMMD. CHMMS		COEFFICIENTS										BETA						
α OR β		$\beta(E) = -10, -5, -2, 0, 2, 5, 10$										IDVAR (1)						
SCHEDULES		$\beta(F) = -10 \rightarrow 10^\circ, \Delta\beta = 5^\circ$										IDVAR (2)						

TEST RUN NUMBERS

 $i = H$

TABLE II. - Concluded.

Definition of DATASET IDENTIFIER 4th Character (i)

<u>4th Character</u>		<u>Type of Data</u>
Force Data		
O	≡	Aerodynamic force coefficients
H	≡	Left nose and main landing gear door and strut hinge moment coefficients
Pressure Data		
N	≡	Left nose landing gear door outer surface static pressure coefficients
E	≡	Left nose landing gear door inner surface static pressure coefficients
M	≡	Left main landing gear door outer surface static pressure coefficients
F	≡	Left main landing gear door inner surface static pressure coefficients
P	≡	Left nose and main landing gear door perimeter static pressure coefficients
W	≡	Left main landing gear strut static pressure coefficients

TABLE III.
MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B₆₈

GENERAL DESCRIPTION: Configuration 140C orbiter fuselage. Similar to 140A/B fuselage except aft body revised and midbody-wing glove area modified. B₆₈ has the addition of air vent doors and air vent door probes

MODEL SCALE: 0.0405

DRAWING NUMBER: VL70-000140C, -000202C, -000205A, -000200B, -000203

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (IML: Nose @ $X_0 = 238$), In.	<u>1290.30</u>	<u>52.257</u>
Length (OML: Nose @ $X_0 = 235$), In.	<u>1293.30</u>	<u>52.379</u>
Max Width (@ $X_0 = 1528.3$), In.	<u>264.0</u>	<u>10.692</u>
Max Depth (@ $X = 1464$), In.	<u>250.00</u>	<u>10.125</u>
Fineness Ratio	<u>4.899</u>	<u>4.899</u>
Area - Ft ²		
Max. Cross-Sectional	<u>340.89</u>	<u>0.559</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C₁₂
 GENERAL DESCRIPTION : Configuration 140C orbiter canopy, vehicle cabin
No. 31 updated, to MCR 200-R4. Used with fuselage B₆₂.
 MODEL SCALE: 0.0405
 DRAWING NUMBER : VL70-000140C, -000202B, -000204

DIMENSIONS .	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643$ to 578), In.	<u>143.357</u>	<u>5.806</u>
Max Width (@ $X_0 = 513.127$), In.	<u>152.412</u>	<u>6.173</u>
Max Depth ($Z_0 = 501$ to 449.39), In.	<u>51.61</u>	<u>2.090</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT: ELEVON - E₅₅

GENERAL DESCRIPTION: Configuration 140C dual panel elevon. Elevon hinge-
line at $X_0 = 1387$. Elevon split line at $Y_0 = 281$ to 312.5 . Upper wing/
elevon gap sealed by flipper doors.

MODEL SCALE: 0.0405

DRAWING NUMBER: VL70-000140C, -006089, -000200B, -006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.00</u>	<u>0.344</u>
Span (equivalent) , In.	<u>349.20</u>	<u>14.143</u>
Inb'd equivalent chord , In.	<u>118.00</u>	<u>4.779</u>
Outb'd equivalent chord , In.	<u>55.19</u>	<u>2.235</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.210</u>	<u>0.210</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of Area & \bar{c})		
Area Moment (Normal to hingeline), Ft ³	<u>1587.25</u>	<u>0.1054</u>
Mean Aerodynamic Chord, In.	<u>90.70</u>	<u>3.673</u>

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F₁₀

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline
located at X = 1532, Z₀ = 287.

DRAWING NUMBER : VL70-000140C, -355114

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X ₀ =1525.5 to X ₀ =1613), In.	<u>87.50</u>	<u>3.544</u>
Max Width (@ L.E., X ₀ =1525.5), In.	<u>256.00</u>	<u>10.368</u>
Max Depth(X ₀ = 1532), In.	<u>19.798</u>	<u>0.802</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional (@H.L.)	<u>35.196</u>	<u>0.058</u>
Planform	<u>135.00</u>	<u>0.220</u>
Wetted	<u> </u>	<u> </u>
Base (X ₀ = 1613)	<u>4.89</u>	<u>0.008</u>

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT: Landing Gear - G₂₀
GENERAL DESCRIPTION: G₁₇ modified to conform to updated drawings V070-510001
and V070-510501, including web-simulation.

Model Scale = 0.0405

Drawing Number: V070-510001, V070-510501

<u>DIMENSIONS:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
<u>NOSE LANDING GEAR</u>		
<u>STRUT</u>		
Number	<u>1</u>	<u>1</u>
Diameter in.	<u>6.420</u>	<u>0.260</u>
Length in.		
Exposed	<u>63.704</u>	<u>2.580</u>
Pivot Point to Wheel Axis	<u>76.543</u>	<u>3.100</u>
Pivot Point Location in.		
X _o	<u>375.506</u>	<u>15.208</u>
Z _o	<u>298.000</u>	<u>12.069</u>
<u>WHEELS</u>		
Number	<u>2</u>	<u>2</u>
Diameter in.	<u>32.099</u>	<u>1.300</u>
Width in.	<u>9.877</u>	<u>0.400</u>
Axis Location in.		
X _o	<u>370.167</u>	<u>14.992</u>
Y _o	<u>0.0</u>	<u>0.0</u>
Z _o	<u>221.643</u>	<u>8.977</u>
<u>DOORS</u>		
Side		
Number	<u>2</u>	<u>2</u>
Length in.	<u>108.47</u>	<u>4.393</u>
Height in.	<u>20.543</u>	<u>0.832</u>
Area Ft ²	<u>--</u>	<u>--</u>
Hingeline Location		
X _o	<u>--</u>	<u>--</u>
Y _o	<u>+ 28.494</u>	<u>+ 1.154</u>
Z _o	<u>301.836</u>	<u>12.224</u>
<u>End</u>		
Number	<u>NONE</u>	<u>NONE</u>
Length in.		
Depth in.		
Area Ft ²		
Hingeline Location		
X _o		
Y _o		
Z _o		

TABLE III (Continued)

MODEL COMPONENT: Landing Gear - G₂₀ (Continued)DIMENSIONS:FULL SCALEMODEL SCALEMAIN LANDING GEARSTRUT

Number	<u>2</u>	<u>2</u>
Diameter in.	<u>9.383</u>	<u>0.380</u>
Length in.		
Exposed	<u>87.901</u>	<u>3.560</u>
Pivot Point to Wheel Axis	<u>107.901</u>	<u>4.370</u>
Pivot Point Location in.		
X _o	<u>1180.0</u>	<u>47.790</u>
Z _o	<u>283.012</u>	<u>11.462</u>

WHEELS

Number	<u>4</u>	<u>4</u>
Diameter in.	<u>49.383</u>	<u>2.000</u>
Width in.	<u>17.778</u>	<u>0.720</u>
Axis Location in.		
X _o	<u>1172.473</u>	<u>47.485</u>
Y _o	<u>+ 136.000</u>	<u>+ 5.508</u>
Z _o	<u>175.372</u>	<u>7.103</u>

DOORSSide

Number	<u>2</u>	<u>2</u>
Length in.	<u>151.012</u>	<u>6.116</u>
Height in.	<u>62.469</u>	<u>2.530</u>
Area Ft ²		
Hingeline Location		
X _o		
Y _o	<u>+ 174.000</u>	<u>+ 7.047</u>
Z _o	<u>282.148</u>	<u>11.427</u>

END

Number	<u>NONE</u>	<u>NONE</u>
Length in.		
Depth in.		
Area Ft ²		
Hingeline Location		
X _o		
Y _o		
Z _o		

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M₁₆

GENERAL DESCRIPTION : Configuration 140C orbiter OMS pod - short pod.

MODEL SCALE: 0.0405

DRAWING NUMBER . VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0=1310.5$), In.	<u>258.50</u>	<u>10.469</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.8</u>	<u>5.540</u>
Max Depth (@ $X_0 = 1511$), In.	<u>74.70</u>	<u>3.025</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>58.864</u>	<u>0.0966</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: OMS NOZZLES - N₂₈

GENERAL DESCRIPTION: Configuration 140C - orbiter OMS Nozzles.

MODEL SCALE: 0.0405

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Release 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft ²		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X ₀	1518.00	61.479
Y ₀	- 88.0	- 3.564
Z ₀	492.0	19.926
Right Lower Nozzles		
X ₀	1518.00	61.479
Y ₀	88.00	3.564
Z ₀	492.00	19.926
Null Position - Deg.		
Left Upper Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'
Right Lower Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'

TABLE III (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT RUDDER - R₅

GENERAL DESCRIPTION Configuration 140C orbiter rudder (identical to configuration 140A/B rudder).

MODEL SCALE: 0.0405

DRAWING NUMBER VL70-000146B, -000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>100.15</u>	<u>0.1643</u>
Span (equivalent), In.	<u>201.00</u>	<u>8.141</u>
Inb'd equivalent chord	<u>91.585</u>	<u>3.709</u>
Outb'd equivalent chord	<u>50.833</u>	<u>2.059</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of Area & c)		
Area Moment (Normal to Hingeline), Ft ³	<u>610.92</u>	<u>0.0406</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.965</u>

TABLE III (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V₈GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail).MODEL SCALE: 0.0405DRAWING NUMBER: VL70-000140C, 70-000146BDIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
--	-------------------	--------------------

TOTAL DATA

Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.678</u>
Span (Theo) - In.	<u>315.72</u>	<u>12.787</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>10.874</u>
Tip (Theo) WP	<u>108.47</u>	<u>4.393</u>
MAC	<u>199.81</u>	<u>8.092</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>59.272</u>
W.P. of .25 MAC	<u>635.52</u>	<u>25.738</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.0810</u>
Void Area	<u>13.17</u>	<u>0.022</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III. (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT: WING-W₁₂₇
GENERAL DESCRIPTION: Configuration 140C orbiter wing, MCR 200-R4, similar to 140A/B wing W₁₁₆ but with refinements: improved wing-boot-midbody fairing ($X_0 = 94.0$ to $X_0 = 104.0$); elevon split line relocated from $Y_0 = 281$ to $Y_0 = 312.5$.

MODEL SCALE: 0.0405

TEST NO.

DWG. NO. VL70-000140C, -000200B

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)
XXXX-64

Root $\frac{b}{2} =$

Tip $\frac{b}{2} =$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft^2

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

2690.00

4.412

936.68

37.936

2.265

2.265

1.177

1.177

0.200

0.200

3.500

3.500

0.500

0.500

45.000

45.000

- 10.056

- 10.056

35.209

35.209

689.24

27.914

137.85

5.583

474.81

19.230

1136.83

46.042

290.58

11.769

182.13

7.736

1751.50

2.873

720.68

29.188

2.059

2.059

0.245

0.245

562.09

22.765

137.85

5.583

392.83

15.910

1185.98

48.032

294.30

11.919

251.77

10.197

0.113

0.113

0.120

0.120

113.18

0.186

500.00

20.250

1024.00

41.472

TABLE III. (Concluded)
MODEL DIMENSIONAL DATA

MODEL COMPONENT: TRANSITION GRIT - X₉

GENERAL DESCRIPTION: Grit located on model nose and all swept surfaces
to provide forced boundary layer transition.

NOMINAL GRIT DIAMETER - IN.

Fuselage	0.0054
----------	--------

All surfaces except fuselage	0.0076
------------------------------	--------

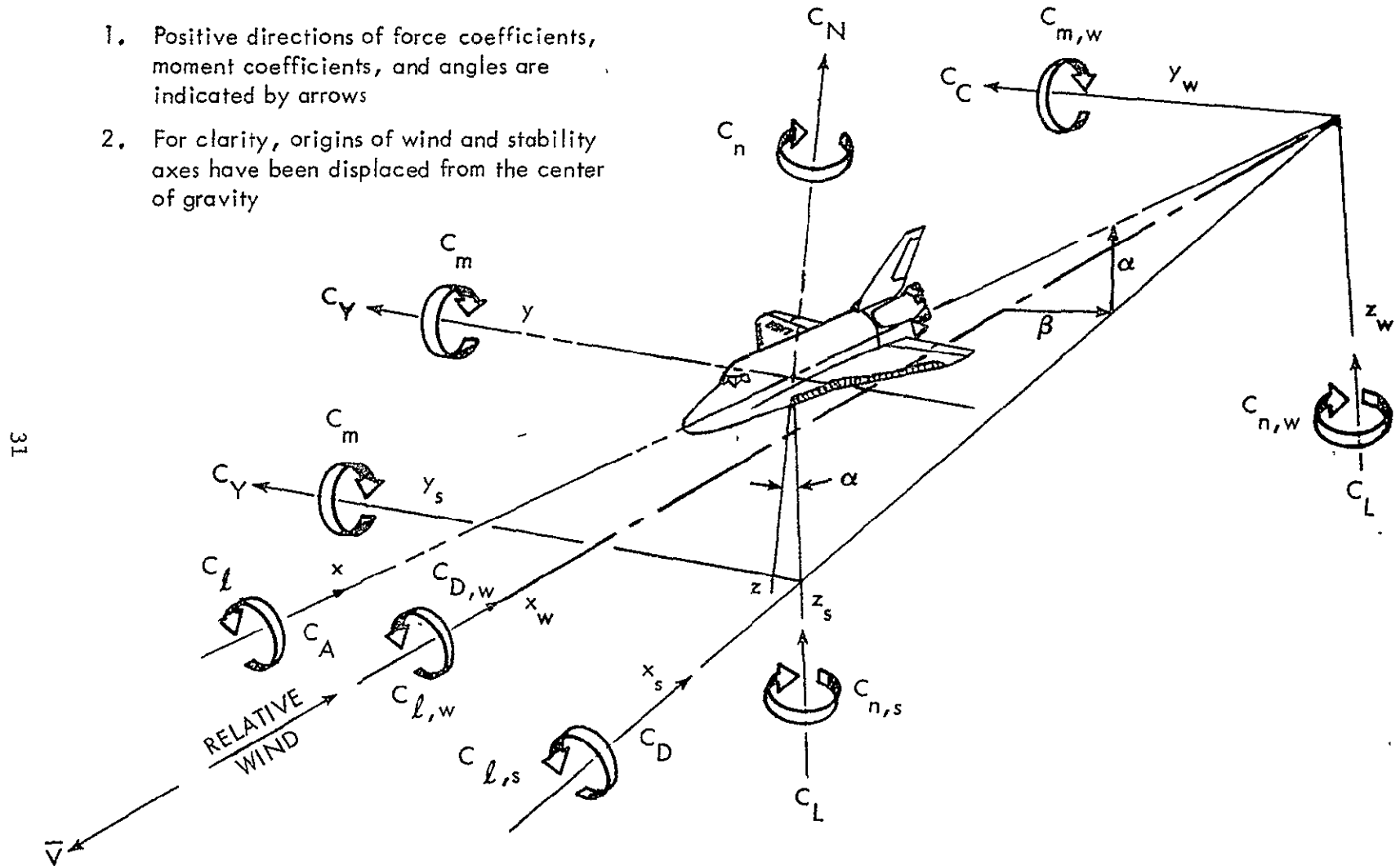
STRIP THICKNESS - In.	0.10
-----------------------	------

LOCATION:

Inches aft of local leading edge (streamwise)	1.00
--	------

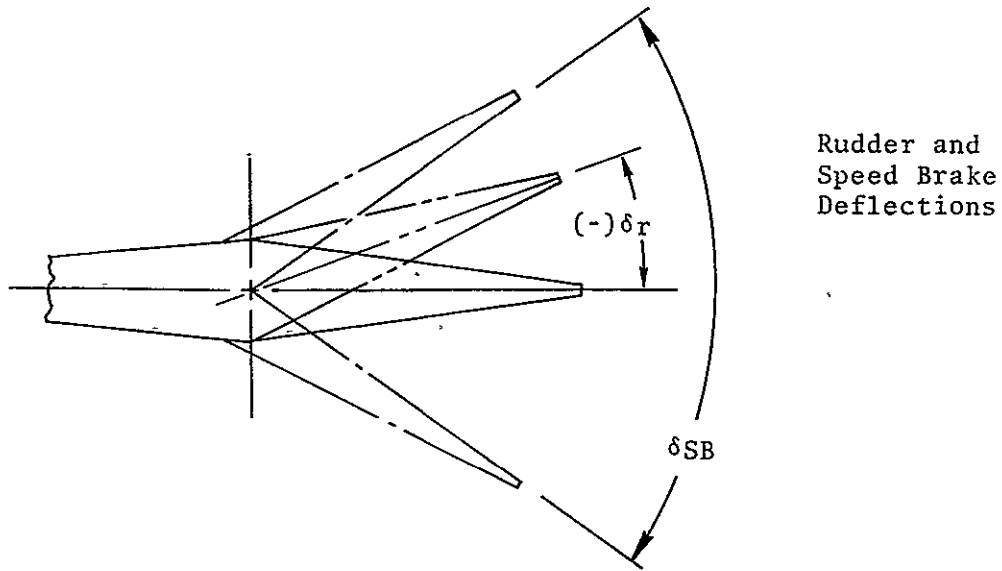
Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

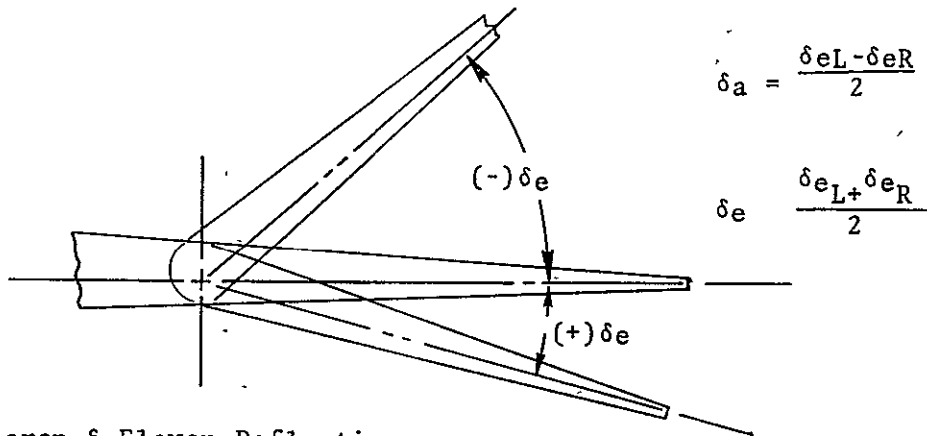


a. Axis Systems

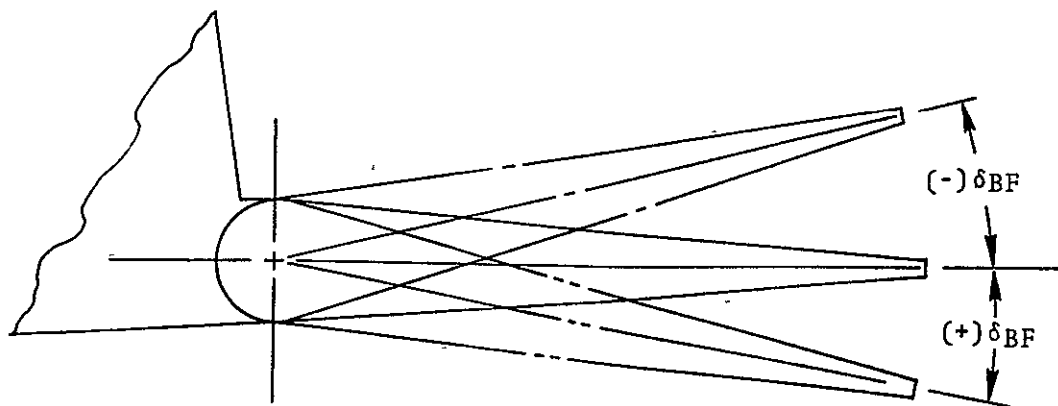
REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.



Rudder and
Speed Brake
Deflections

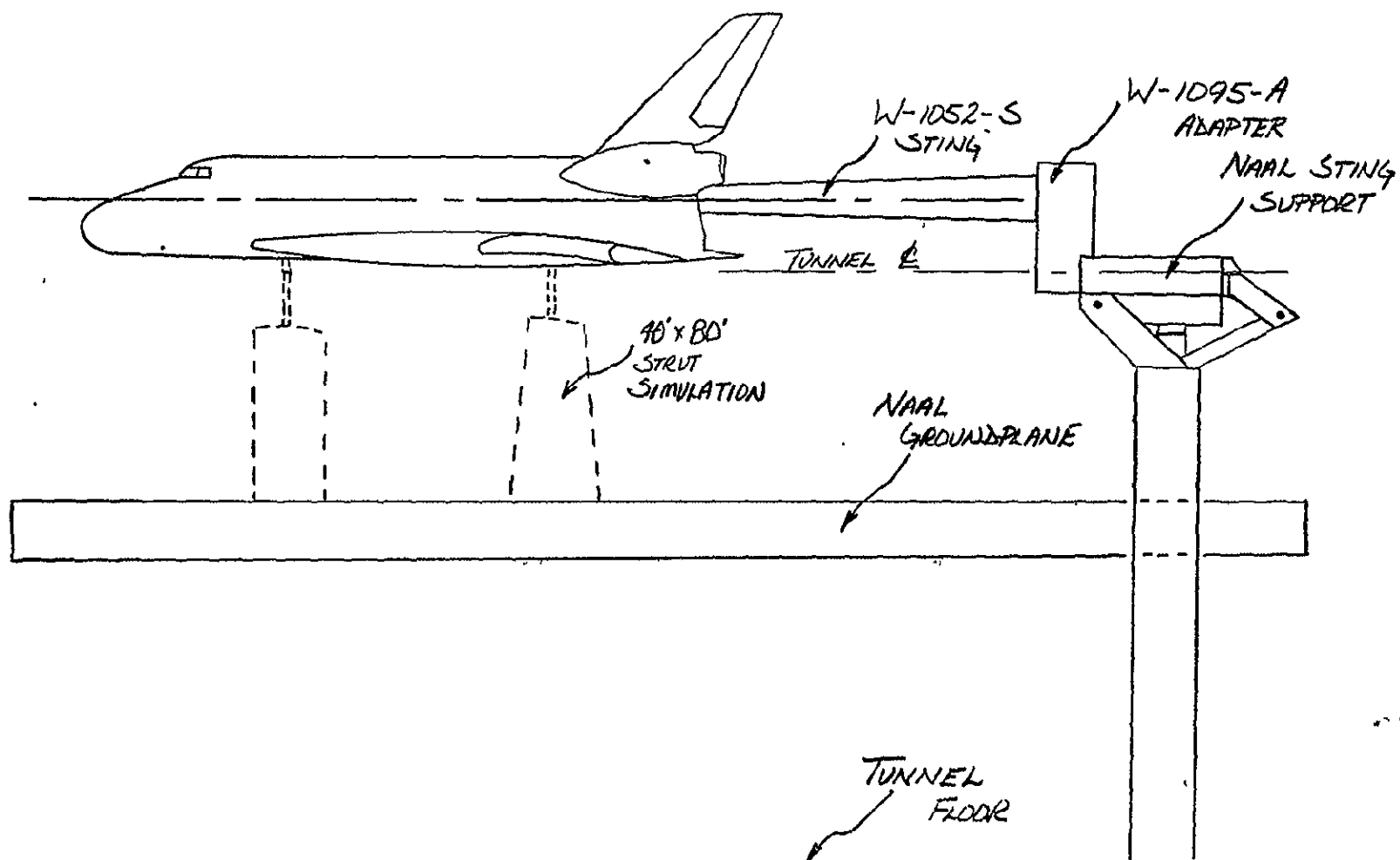


Aileron & Elevon Deflections

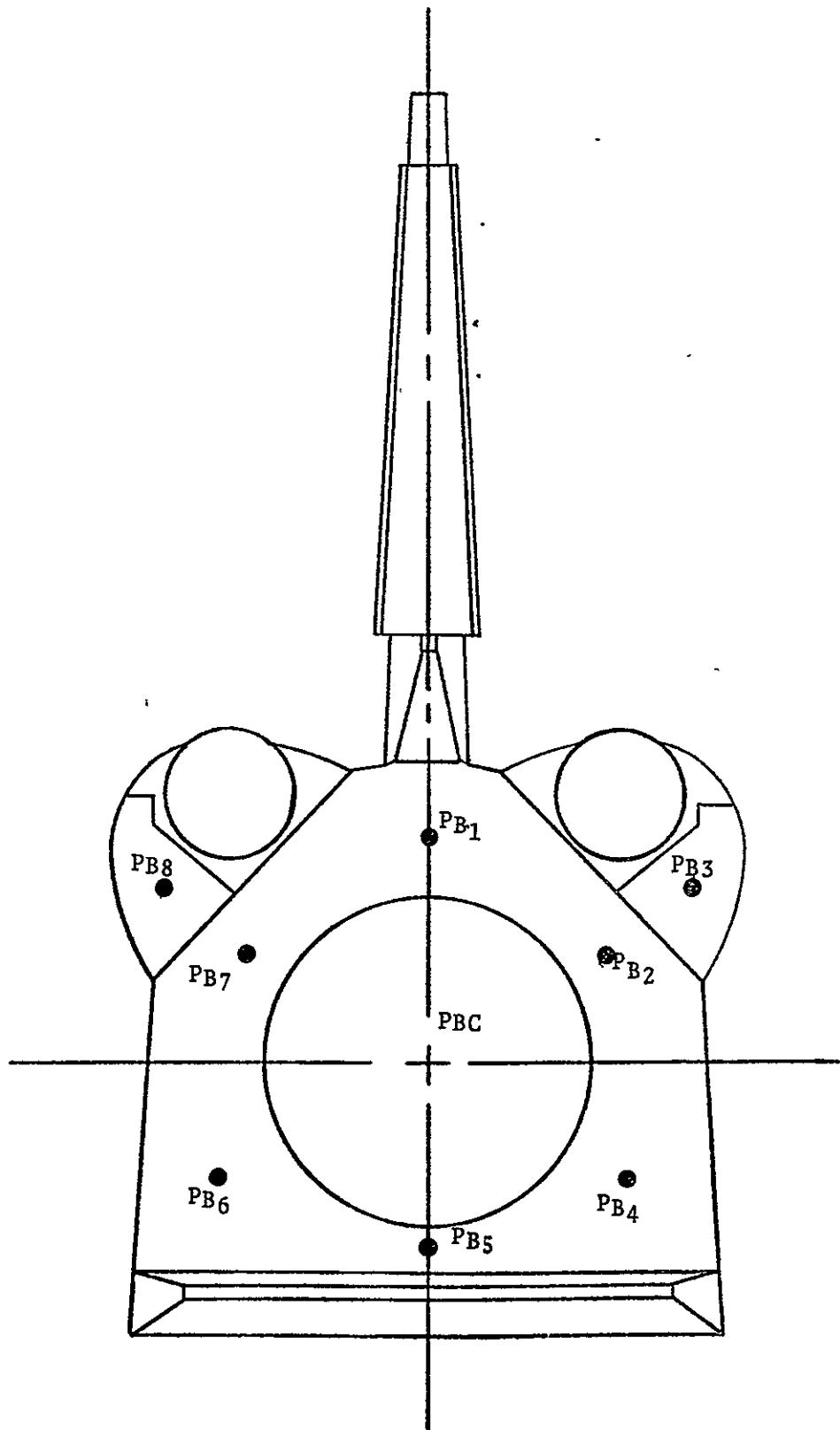


Body Flap Deflections

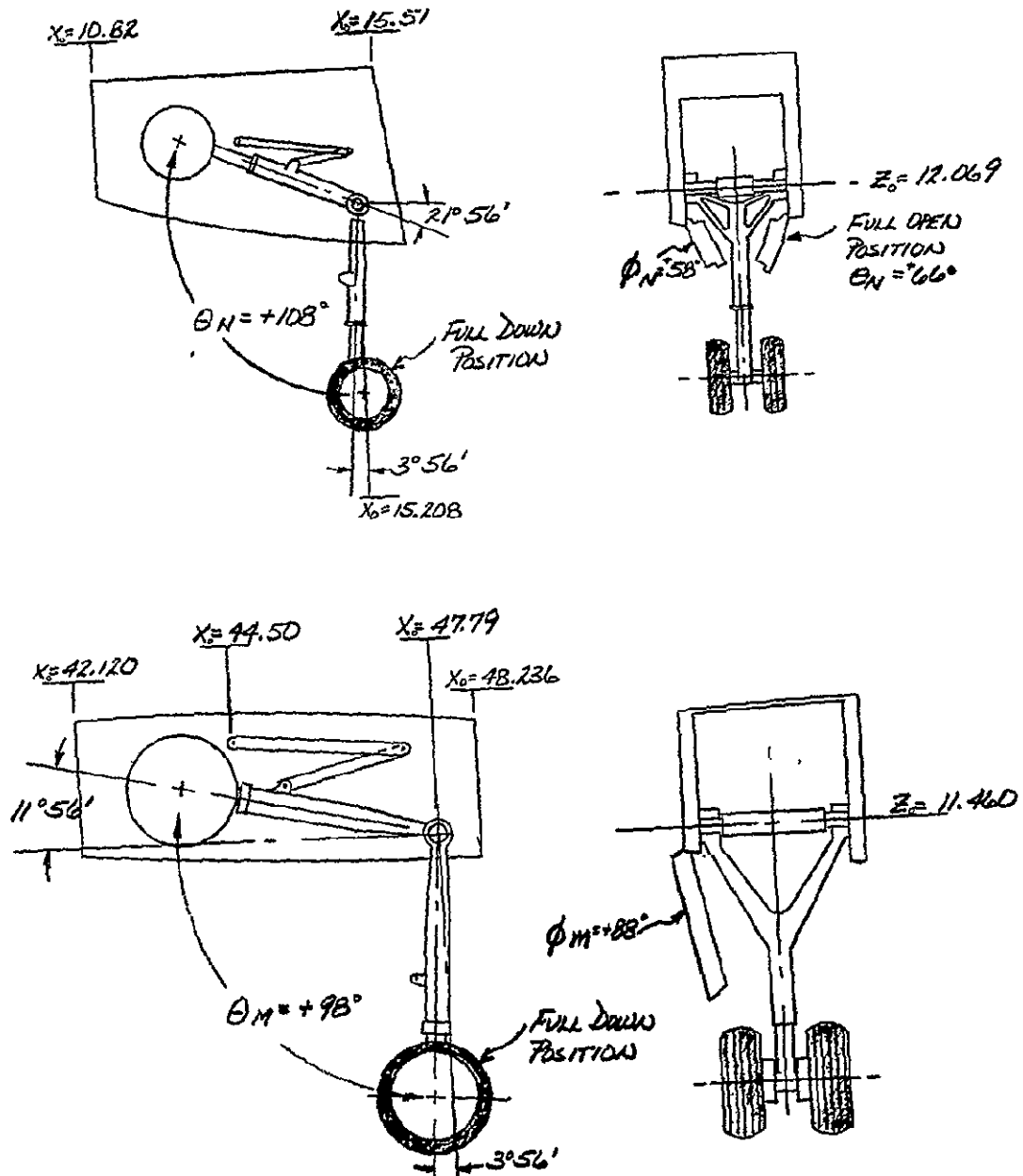
b. Sign Convention for Control Surfaces
Figure 1. Axis Systems and Sign Conventions



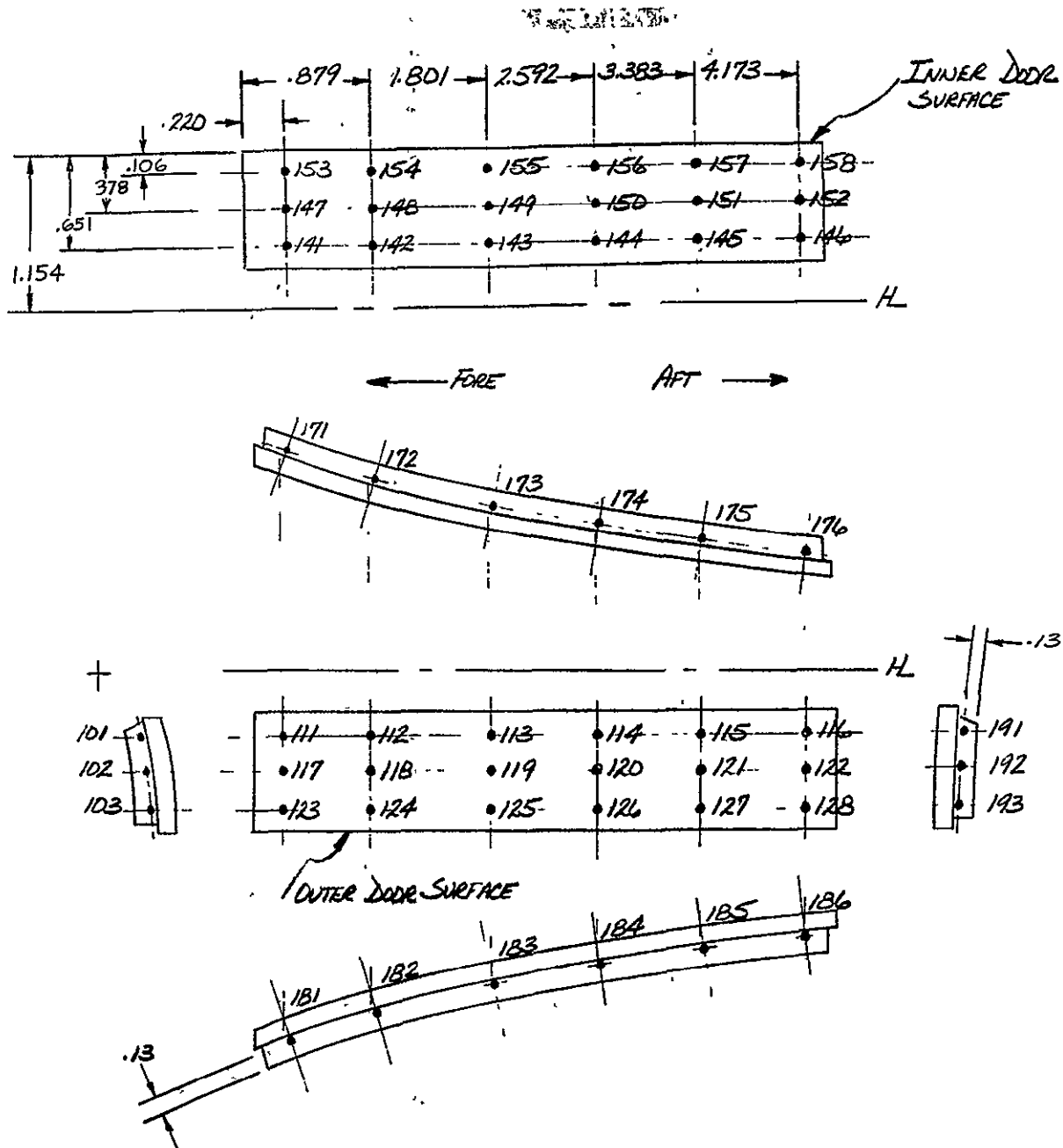
a. NAAL Tunnel Installation
Figure 2. Model sketches



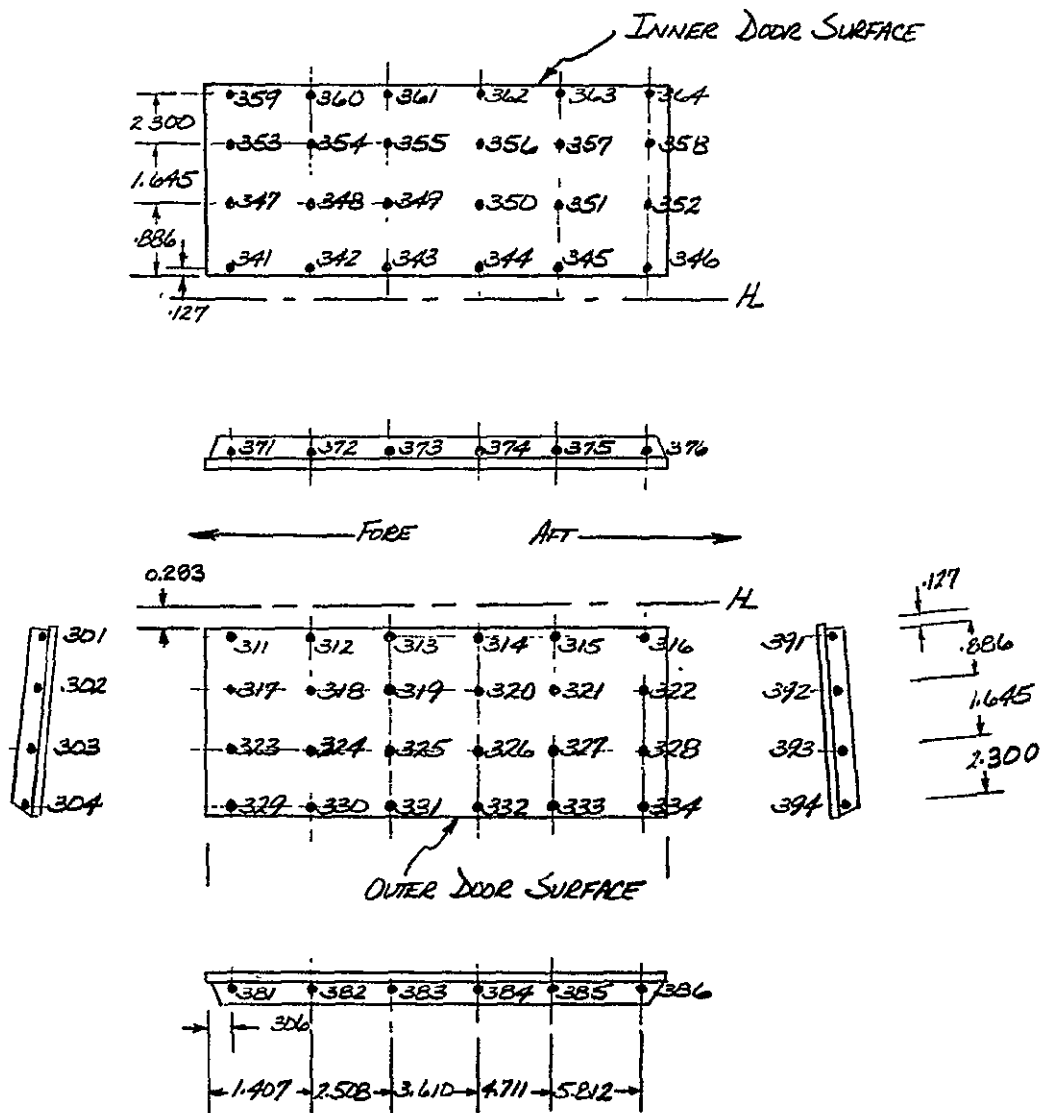
b. Model Base Pressure Instrumentation
Figure 2. Model sketches



c. Sign Convention for Landing Gear
Figure 2. Model sketches

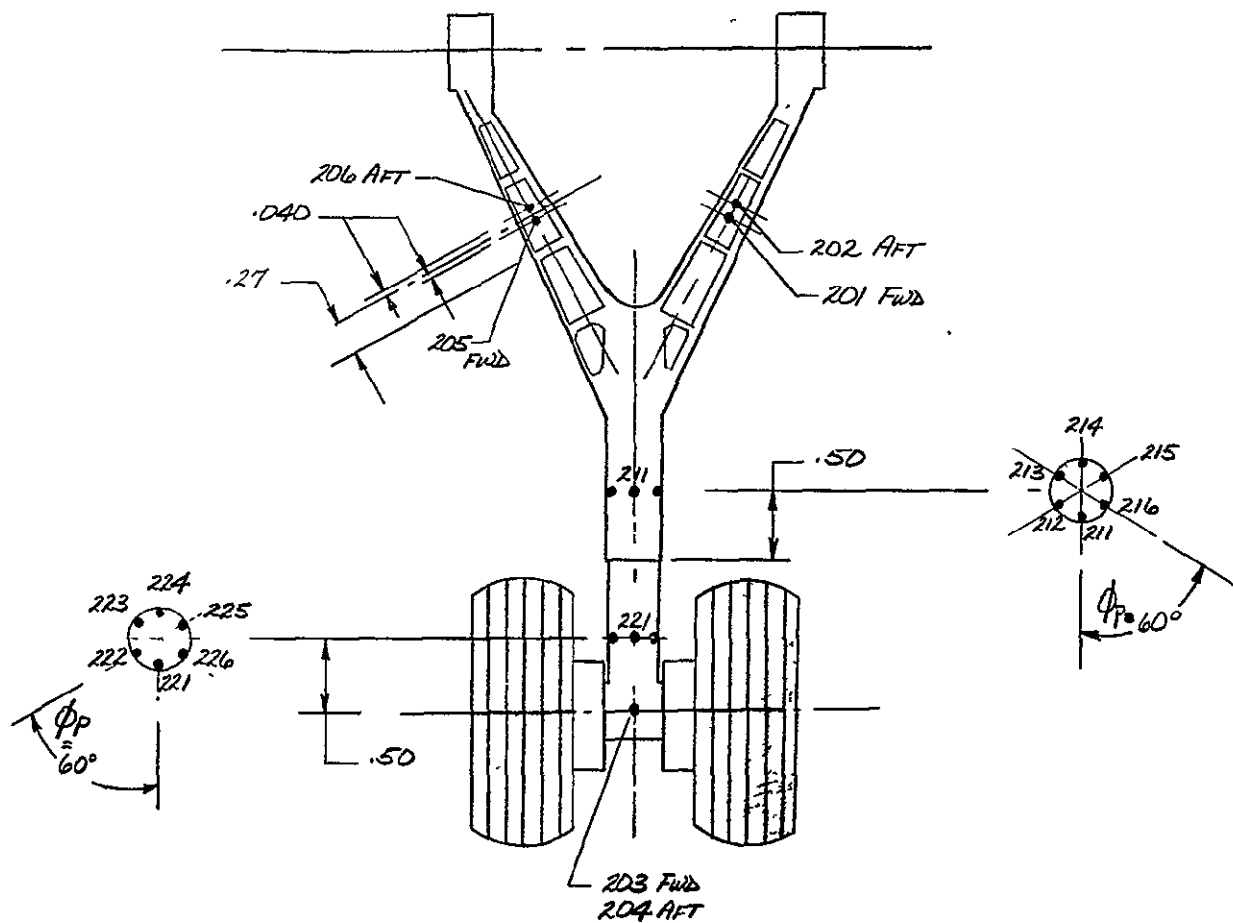


d. L. H. NLG Door Pressure Instrumentation
Figure 2. Model sketches

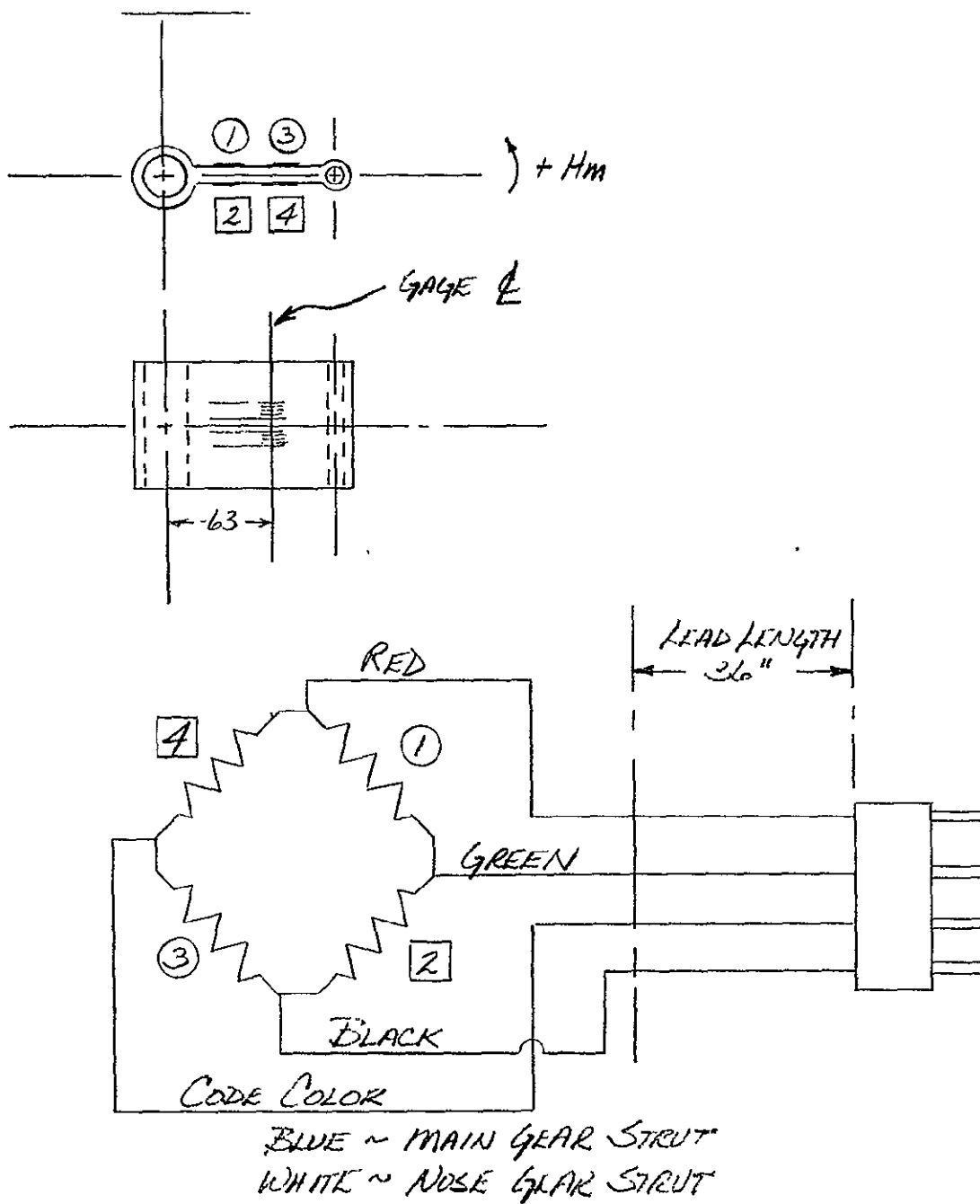


e. L. H. MLG Door Pressure Instrumentation
Figure 2. Model sketches

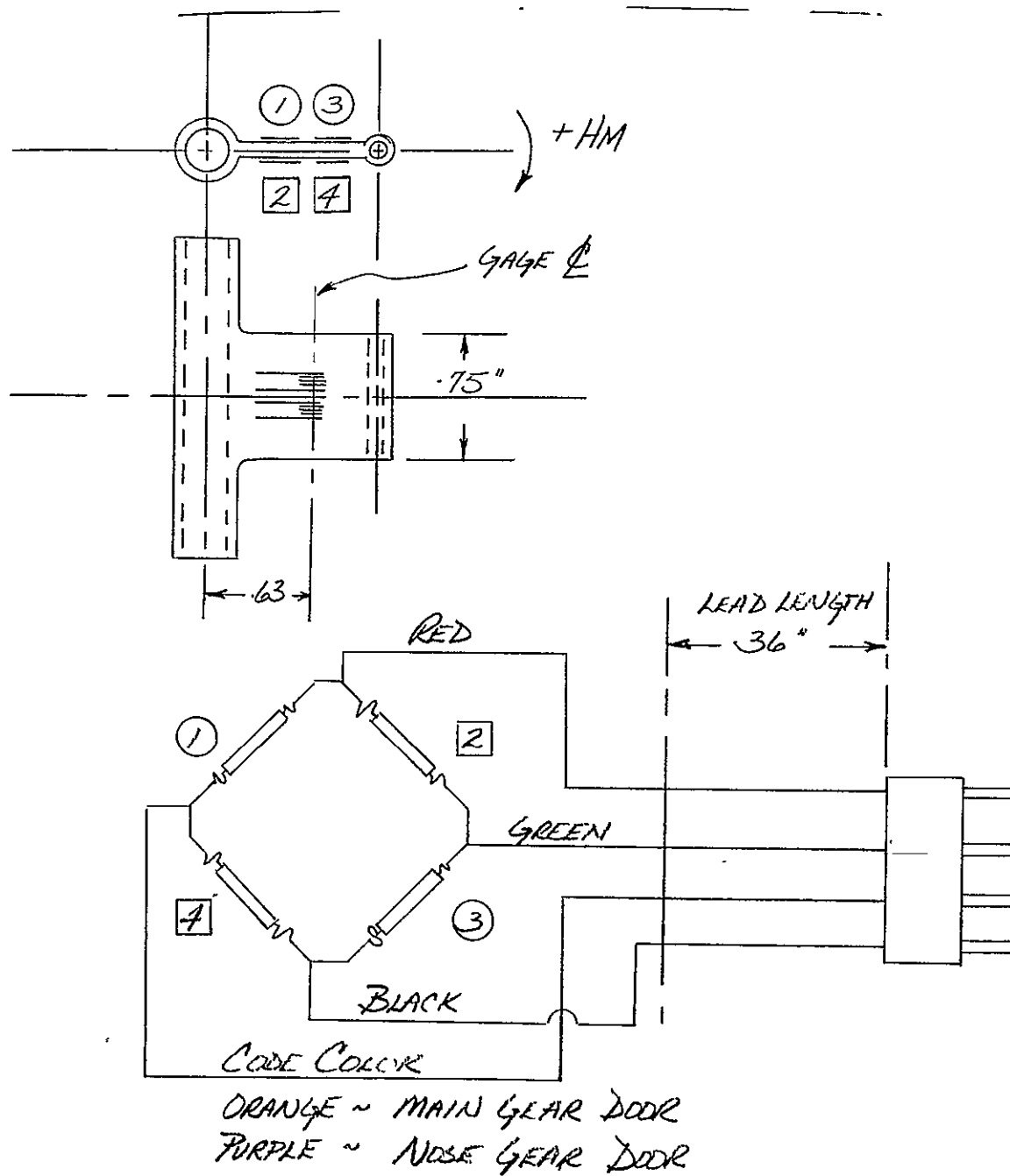
REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR



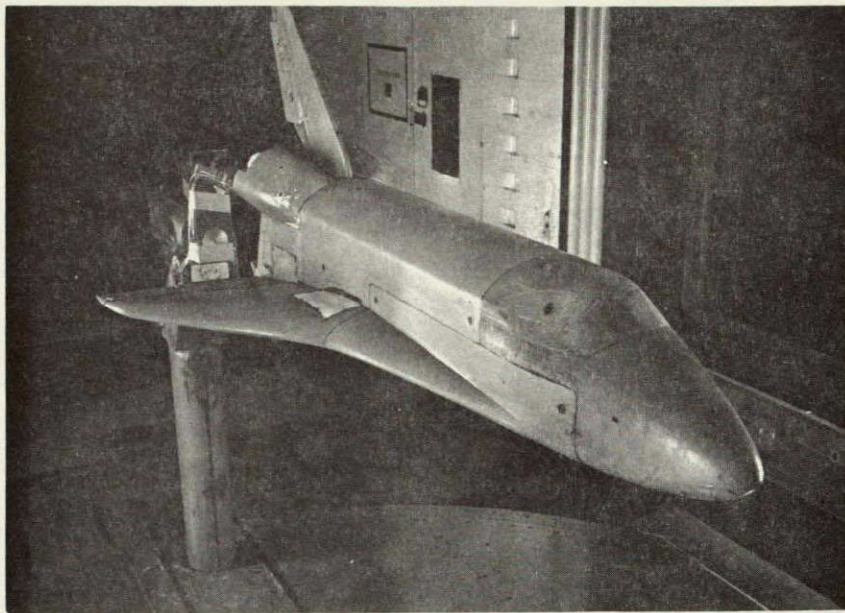
f. L. H. MIG Strut Pressure Instrumentation
Figure 2. Model sketches



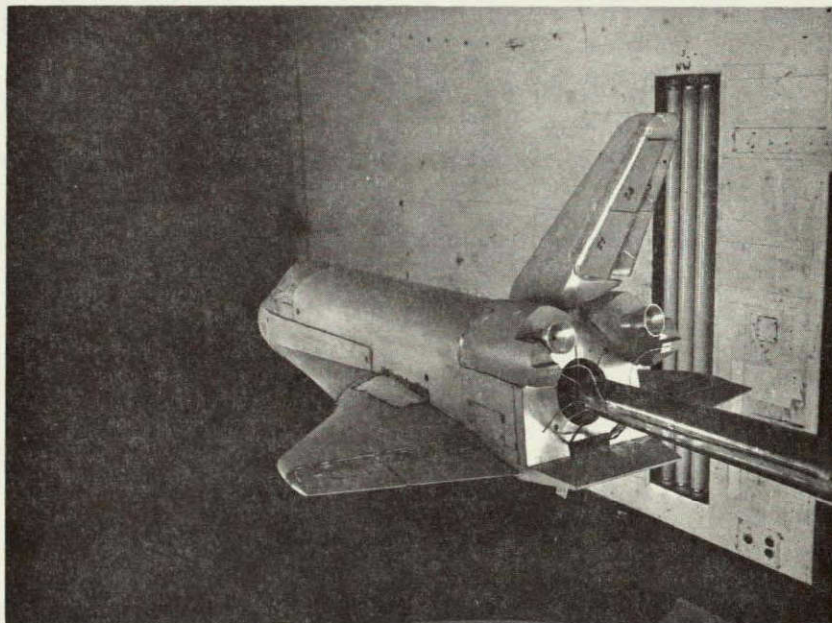
g. Typical Landing Gear Strut Strain Gage Instrumentation
Figure 2. Model sketches



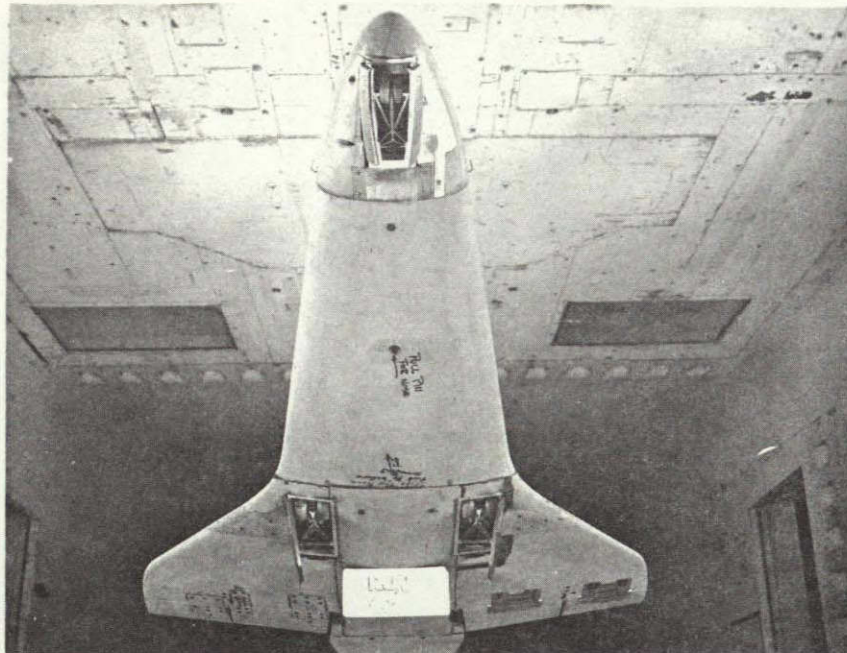
h. Typical Landing Gear Door Strain Gage Instrumentation
Figure 2. Model sketches



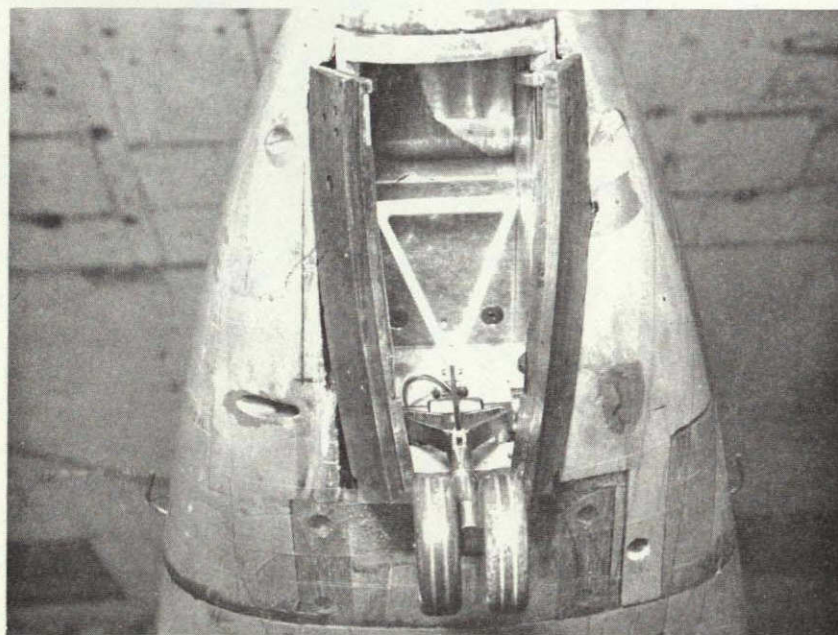
a. NAAL Installation, Front View, Model Configuration
 B68C12G20M16N28W127E55F10V8R5X9
 Figure 3. Model photographs



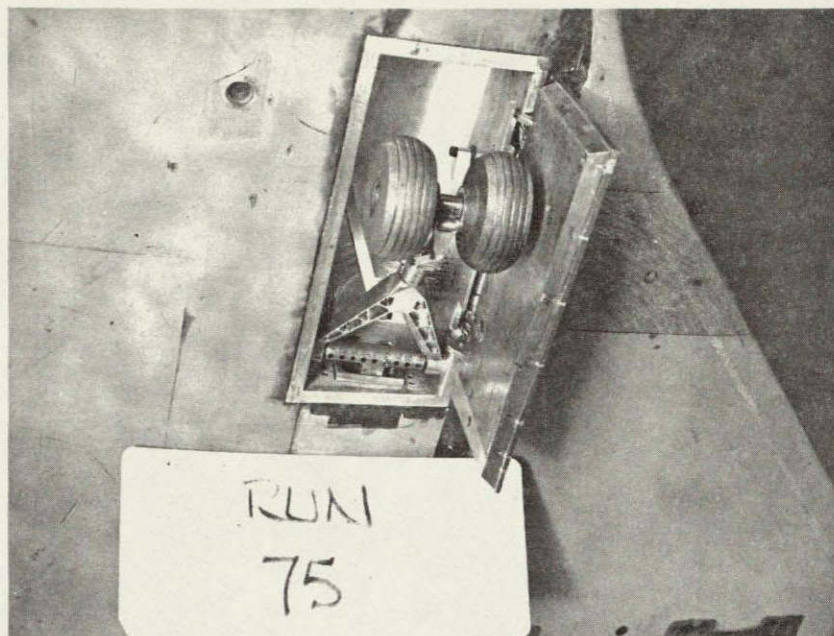
b. NAAL Installation, Rear view, Model Configuration
 B68C12G20M16N28W127E55F10V8R5X9
 Figure 3. Model photographs



c. NAAL Installation, Bottom View, Model Configuration
B68C12G20M16N28W127E55F10V8R5X9

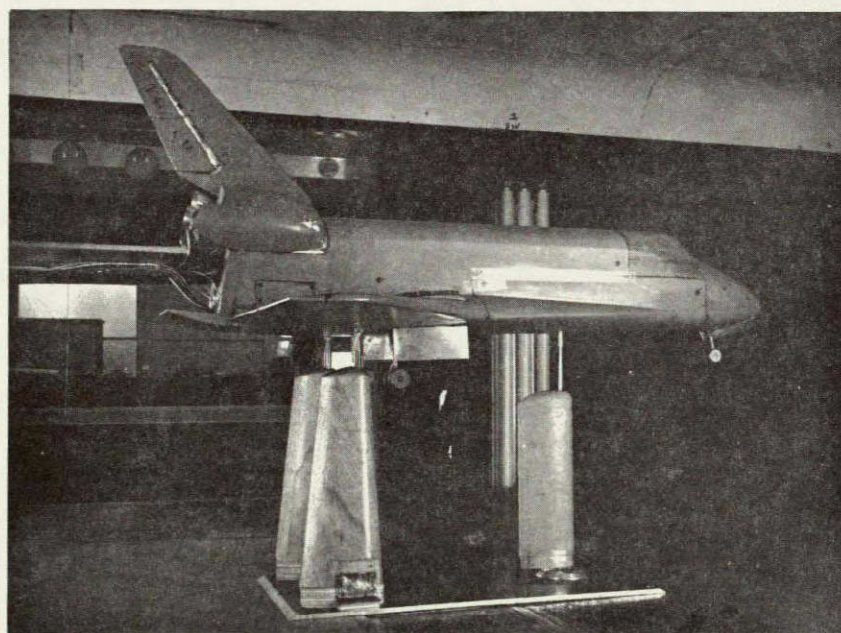


d. Nose Landing Gear, $\theta_N = 108^\circ$, $\phi_N = 66^\circ$
Figure 3. Model photographs



e. Main Landing Gear, $\theta_M = 35^\circ$, $\phi_M = 88^\circ$

Figure 3. Model photographs



f. NAAL Installation, Side View, Model Configuration
B68C12G20M16N28W127E55F10V8R5X9 + 40' x 80' Strut Simulation

Figure 3. Model photographs

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APPENDIX

VOLUME 2

Volume	Tabulated Pressure Data	Fourth Character *	Page
2	Nose landing gear door outer surface	N	1-351
	Nose landing gear door inner surface	E	352-702
3	Main landing gear door outer surface	M	703-1053
	Main landing gear door inner surface	F	1054-1404
4	Nose and main landing gear door perimeter	P	1405-1755
	Main landing gear strut	W	1756-2106

* The fourth character in each dataset identifier (i.e., RFFPXX, for perimeter) represents the individual component.

Tabulations of plotted data are available
on request from Data Management Services.

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 1

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN01) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = .000 THETAN = .000
PHI-M = .000 THETAM = .000

BETA (1) = -10.120 ALPHA (1) = .010 Q(PSF) = 42.852 P0/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0675 -.0675 -.0248
.200 -.1600 -.1540 -.1202
.410 -.2017 -.1798 -.1759
.590 -.2047 -.1967 -.1987
.770 -.2067 -.2079
.950 -.2007 -.2166 -.2096

BETA (1) = -10.120 ALPHA (2) = 2.090 Q(PSF) = 42.852 P0/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0039 -.0030 .0455
.200 -.1071 -.0942 -.0575
.410 -.1527 -.1299 -.1180
.590 -.1656 -.1517 -.1537
.770 -.1695 -.1680
.950 -.1685 -.1794 -.1685

BETA (1) = -10.120 ALPHA (3) = 4.220 Q(PSF) = 42.852 P0/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0604 .0624 .1149
.200 -.0515 -.0337 .0079
.410 -.0981 -.0773 -.0594
.590 -.1209 -.1070 -.0991
.770 -.1268 -.1207
.950 -.1318 -.1397 -.1229

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 2

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN01)

BETA (1) = -10.120 ALPHA (4) = 6.200 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1179	.1258	.1774
.200	.0039	.0247	.0683
.410	-.0505	-.0257	-.0049
.590	-.0723	-.0604	-.0515
.770		-.0862	-.0780
.950	-.0961	-.1011	-.0803

BETA (1) = -10.120 ALPHA (5) = 8.310 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1781	.1881	.2467
.200	.0593	.0870	.1345
.410	.0029	.0257	.0544
.590	-.0247	-.0128	-.0010
.770		-.0445	-.0307
.950	-.0534	-.0574	-.0307

BETA (1) = -10.120 ALPHA (6) = 10.330 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2348	.2488	.3084
.200	.1128	.1435	.1901
.410	.0504	.0801	.1089
.590	.0177	.0336	.0475
.770		.0009	.0141
.950	-.0158	-.0168	.0148

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 3

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN01)

BETA (2) = -5.090 ALPHA (1) = .010 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0227	-.0346	.0029
.200	-.1216	-.1117	-.0870
.410	-.1621	-.1413	-.1403
.590	-.1700	-.1611	-.1611
.770	-.1789	-.1787	
.950	-.1769	-.1838	-.1779

BETA (2) = -5.090 ALPHA (2) = 2.050 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0375	.0296	.0642
.200	-.0672	-.0573	-.0277
.410	-.1147	-.0919	-.0880
.590	-.1295	-.1186	-.1167
.770	-.1404	-.1404	-.1418
.950	-.1434	-.1503	-.1424

BETA (2) = -5.090 ALPHA (3) = 4.120 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0988	.0938	.1284
.200	-.0118	.0009	.0306
.410	-.0682	-.0425	-.0336
.590	-.0860	-.0761	-.0741
.770	-.0998	-.0998	-.0980
.950	-.1087	-.1137	-.1038

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 4

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFND1)

BETA (2) = -5.090 ALPHA (4) = 6.220 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1576	.1566	.1934
.200	.0436	.0604	.0922
.410	-.0168	.0088	.0208
.590	-.0426	-.0297	-.0258
.770		-.0585	-.0556
.950	-.0714	-.0763	-.0674

BETA (2) = -5.090 ALPHA (5) = 8.280 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2214	.2194	.2523
.200	.1001	.1190	.1498
.410	.0356	.0624	.0724
.590	.0079	.0178	.0227
.770		-.0168	-.0094
.950	-.0337	-.0357	-.0228

BETA (2) = -5.090 ALPHA (6) = 10.320 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2795	.2805	.3153
.200	.1563	.1742	.2070
.410	.0900	.1118	.1276
.590	.0524	.0682	.0712
.770		.0257	.0343
.950	.0069	.0039	.0148

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 5

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN011)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0079	-.0217	.0000
.200	-.1058	-.0979	-.0762
.410	-.1454	-.1237	-.1296
.590	-.1573	-.1504	-.1514
.770		-.1712	-.1699
.950	-.1741	-.1751	-.1682

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0504	.0385	.0583
.200	-.0534	-.0455	-.0237
.410	-.0990	-.0792	-.0831
.590	-.1168	-.1079	-.1109
.770		-.1326	-.1341
.950	-.1406	-.1435	-.1346

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1099	.0980	.1159
.200	.0000	.0098	.0316
.410	-.0505	-.0307	-.0337
.590	-.0743	-.0664	-.0674
.770		-.0961	-.0949
.950	-.1030	-.1080	-.1001

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 6

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN01)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1696	.1567	.1746
.200	.0575	.0654	.0843
.410	-.0010	.0178	.0168
.590	-.0307	-.0208	-.0208
.770		-.0575	-.0556
.950	-.0665	-.0714	-.0635

BETA (3) = .000 ALPHA (5) = 8.300 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2257	.2178	.2307
.200	.1187	.1216	.1384
.410	.0514	.0702	.0672
.590	.0158	.0256	.0227
.770		-.0138	-.0139
.950	-.0297	-.0326	-.0257

BETA (3) = .000 ALPHA (6) = 10.350 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2862	.2733	.2842
.200	.1710	.1750	.1919
.410	.1067	.1196	.1176
.590	.0632	.0711	.0682
.770		.0276	.0309
.950	.0098	.0059	.0157

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 7

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN01)

BETA (4) = 4.970 ALPHA (1) = .010 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0237	-.0405	-.0316
.200	-.1187	-.1098	-.0959
.410	-.1523	-.1325	-.1394
.590	-.1691	-.1612	-.1632
.770	-	-.1879	-.1856
.950	-.1968	-.1938	-.1829

BETA (4) = 4.970 ALPHA (2) = 2.060 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0327	.0178	.0178
.200	-.0654	-.0595	-.0476
.410	-.1081	-.0902	-.0942
.590	-.1299	-.1220	-.1259
.770	-	-.1547	-.1512
.950	-.1636	-.1636	-.1507

BETA (4) = 4.970 ALPHA (3) = 4.150 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0890	.0742	.0712
.200	-.0099	-.0079	.0009
.410	-.0594	-.0465	-.0505
.590	-.0881	-.0812	-.0861
.770	-	-.1178	-.1161
.950	-.1307	-.1287	-.1168

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 8

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFND1)

BETA (4) = 4.970 ALPHA (4) = 6.200 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1497	.1319	.1259
.200	.0475	.0465	.0515
.410	-.0089	.0029	-.0079
.590	-.0446	-.0377	-.0446
.770		-.0833	-.0814
.950	-.0942	-.0942	-.0823

BETA (4) = 4.970 ALPHA (5) = 8.250 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2019	.1870	.1751
.200	.1019	.0959	.0999
.410	.0385	.0494	.0385
.590	-.0010	.0029	-.0039
.770		-.0396	-.0420
.950	-.0564	-.0594	-.0485

BETA (4) = 4.970 ALPHA (6) = 10.330 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2626	.2378	.2258
.200	.1563	.1524	.1474
.410	.0900	.0989	.0860
.590	.0484	.0484	.0405
.770		.0009	-.0038
.950	-.0178	-.0178	-.0099

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 9

OA163 ORB NOSE GEAR DOOR OUTER SURFACE (RFFN01)

BETA (5) = 10.040 ALPHA (1) = .020 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0585	-.0833	-.0873
.200	-.1468	-.1468	-.1398
.410	-.1815	-.1676	-.1726
.590	-.2023	-.1934	-.1974
.770	-.2271	-.2187	
.950	-.2390	-.2291	-.2162

BETA (5) = 10.040 ALPHA (2) = 2.100 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0059	-.0297	-.0396
.200	-.0980	-.0970	-.0970
.410	-.1376	-.1257	-.1356
.590	-.1633	-.1584	-.1633
.770		-.1950	-.1903
.950	-.2069	-.2010	-.1861

BETA (5) = 10.040 ALPHA (3) = 4.150 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0456	.0238	.0059
.200	-.0467	-.0487	-.0536
.410	-.0924	-.0824	-.0934
.590	-.1232	-.1212	-.1252
.770		-.1609	-.1571
.950	-.1739	-.1689	-.1570

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 10

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN01)

BETA (5) = 10.040 ALPHA (4) = 6.200 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0997	.0740	.0493
.200	.0039	-.0010	-.0108
.410	-.0464	-.0395	-.0514
.590	-.0780	-.0790	-.0889
.770		-.1235	-.1249
.950	-.1403	-.1373	-.1265

BETA (5) = 10.040 ALPHA (5) = 8.250 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1497	.1219	.0962
.200	.0525	.0466	.0307
.410	.0000	.0039	-.0158
.590	-.0367	-.0407	-.0526
.770		-.0893	-.0916
.950	-.1032	-.1041	-.0952

BETA (5) = 10.040 ALPHA (6) = 10.370 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2072	.1744	.1417
.200	.1080	.0971	.0763
.410	.0525	.0495	.0227
.590	.0049	.0039	-.0119
.770		-.0525	-.0578
.950	-.0654	-.0694	-.0614

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 11

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = .260 THETAN = .000
PHI-M = .230 THETAM = .000

BETA (1) = -10.050 ALPHA (1) = .040 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0872 -.0872 -.0386
.200 -.1635 -.1555 -.1248
.410 -.2051 -.1823 -.1763
.590 -.2041 -.1952 -.1971
.770 -.2071 -.2095
.950 -.2080 -.2130 -.2041

BETA (1) = -10.050 ALPHA (2) = 2.090 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0278 -.0206 .0277
.200 -.1112 -.1003 -.0606
.410 -.1569 -.1311 -.1202
.590 -.1648 -.1529 -.1519
.770 -.1678 -.1683
.950 -.1738 -.1748 -.1639

BETA (1) = -10.050 ALPHA (3) = 4.170 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0337 .0426 .0962
.200 -.0576 -.0387 .0019
.410 -.1122 -.0784 -.0665
.590 -.1241 -.1092 -.1032
.770 -.1261 -.1232
.950 -.1370 -.1400 -.1271

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 12

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (1) = -10.050 ALPHA (4) = 6.240 Q(PSF) = 42.872 P0/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0971	.1100	.1656
.200	-.0010	.0178	.0654
.410	-.0625	-.0278	-.0099
.590	-.0784	-.0635	-.0535
.770		-.0863	-.0781
.950	-.0992	-.1002	-.0853

BETA (1) = -10.050 ALPHA (5) = 8.270 Q(PSF) = 42.872 P0/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1541	.1759	.2305
.200	.0503	.0760	.1265
.410	-.0109	.0246	.0464
.590	-.0366	-.0138	-.0039
.770		-.0395	-.0341
.950	-.0623	-.0613	-.0474

BETA (1) = -10.050 ALPHA (6) = 10.340 Q(PSF) = 42.872 P0/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2163	.2351	.2976
.200	.1115	.1372	.1846
.410	.0414	.0769	.1006
.590	.0147	.0335	.0444
.770		.0058	.0129
.950	-.0247	-.0227	-.0049

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 13

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (2) = -5.030 ALPHA (1) = .010 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0484	-.0504	-.0128
.200	-.1276	-.1177	-.0920
.410	-.1622	-.1404	-.1404
.590	-.1681	-.1612	-.1622
.770		-.1761	-.1800
.950	-.1800	-.1830	-.1731

BETA (2) = -5.030 ALPHA (2) = 2.090 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0118	.0128	.0506
.200	-.0705	-.0635	-.0318
.410	-.1162	-.0943	-.0893
.590	-.1281	-.1172	-.1172
.770		-.1390	-.1401
.950	-.1460	-.1479	-.1370

BETA (2) = -5.030 ALPHA (3) = 4.150 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0742	.0772	.1178
.200	-.0178	-.0049	.0276
.410	-.0673	-.0426	-.0376
.590	-.0851	-.0742	-.0723
.770		-.0980	-.1004
.950	-.1099	-.1129	-.1020

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 14

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (2) = -5.030 ALPHA (4) = 6.190 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1369	.1428	.1796
.200	.0386	.0515	.0853
.410	-.0198	.0059	.0138
.590	-.0417	-.0298	-.0278
.770		-.0595	-.0601
.950	-.0744	-.0764	-.0655

BETA (2) = -5.030 ALPHA (5) = 8.260 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1976	.2055	.2454
.200	.0932	.1091	.1419
.410	.0317	.0605	.0694
.590	.0029	.0178	.0228
.770		-.0159	-.0128
.950	-.0357	-.0367	-.0248

BETA (2) = -5.030 ALPHA (6) = 10.430 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2610	.2689	.3026
.200	.1550	.1738	.2055
.410	.0849	.1155	.1244
.590	.0533	.0661	.0720
.770		.0286	.0365
.950	.0039	.0049	.0187

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 15

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (3) = .010 ALPHA (1) = .030 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	-.0376	-.0396	-.0138
.200	-.1099	-.1010	-.0841
.410	-.1446	-.1257	-.1297
.590	-.1564	-.1485	-.1515
.770		-.1693	-.1723
.950	-.1772	-.1762	-.1644

BETA (3) = .010 ALPHA (2) = 2.050 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	.0207	.0187	.0445
.200	-.0564	-.0524	-.0326
.410	-.1010	-.0812	-.0831
.590	-.1178	-.1109	-.1109
.770		-.1346	-.1352
.950	-.1465	-.1445	-.1287

BETA (3) = .010 ALPHA (3) = 4.200 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	.0860	.0840	.1077
.200	-.0020	.0059	.0246
.410	-.0514	-.0306	-.0336
.590	-.0761	-.0672	-.0662
.770		-.0949	-.0980
.950	-.1078	-.1078	-.0920

DATE 20 OCT '76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 16

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (3) = .010 ALPHA (4) = 6.190 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1446	.1456	.1654
.200	.0534	.0604	.0752
.410	-.0029	.0168	.0158
.590	-.0317	-.0218	-.0238
.770		-.0555	-.0578
.950	-.0723	-.0693	-.0594

BETA (3) = .010 ALPHA (5) = 8.290 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2053	.2023	.2232
.200	.1080	.1179	.1328
.410	.0485	.0654	.0654
.590	.0158	.0217	.0217
.770		-.0158	-.0173
.950	-.0327	-.0337	-.0218

BETA (3) = .010 ALPHA (6) = 10.320 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2681	.2581	.2780
.200	.1656	.1705	.1854
.410	.0971	.1160	.1140
.590	.0604	.0684	.0674
.770		.0287	.0254
.950	.0059	.0049	.0128

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 17

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (4) = 5.040 ALPHA (1) = .030 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0544	-.0573	-.0415
.200	-.1216	-.1157	-.1058
.410	-.1552	-.1374	-.1433
.590	-.1700	-.1611	-.1621
.770		-.1898	-.1877
.950	-.1967	-.1918	-.1799

BETA (4) = 5.040 ALPHA (2) = 2.060 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0039	-.0020	.0148
.200	-.0692	-.0643	-.0594
.410	-.1098	-.0920	-.0979
.590	-.1296	-.1237	-.1247
.770		-.1544	-.1554
.950	-.1643	-.1613	-.1464

BETA (4) = 5.040 ALPHA (3) = 4.110 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0683	.0554	.0663
.200	-.0158	-.0456	-.0089
.410	-.0604	-.0495	-.0555
.590	-.0892	-.0813	-.0862
.770		-.1189	-.1365
.950	-.1308	-.1268	-.1140

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 18

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (4) = 5.040 ALPHA (4) = 6.180 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1271	.1122	.1211
.200	.0397	.0387	.0426
.410	-.0129	-.0020	-.0109
.590	-.0467	-.0407	-.0467
.770		-.0804	-.0838
.950	-.0963	-.0953	-.0844

BETA (4) = 5.040 ALPHA (5) = 8.250 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1841	.1722	.1722
.200	.0979	.0910	.0910
.410	.0366	.0455	.0336
.590	-.0020	.0019	-.0039
.770		-.0416	-.0442
.950	-.0584	-.0594	-.0505

BETA (4) = 5.040 ALPHA (6) = 10.380 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2449	.2300	.2241
.200	.1538	.1460	.1400
.410	.0907	.0927	.0798
.590	.0493	.0483	.0394
.770		-.0010	-.0060
.950	-.0187	-.0197	-.0108

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 19

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (5) = 10.100 ALPHA (1) = .000 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0952	-.1002	-.0902
.200	-.1527	-.1508	-.1508
.410	-.1825	-.1676	-.1755
.590	-.2013	-.1954	-.1974
.770		-.2281	-.2221
.950	-.2380	-.2291	-.2142

BETA (5) = 10.100 ALPHA (2) = 2.050 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0417	-.0486	-.0447
.200	-.1033	-.1053	-.1092
.410	-.1420	-.1291	-.1400
.590	-.1639	-.1579	-.1629
.770		-.1966	-.1954
.950	-.2056	-.1996	-.1867

BETA (5) = 10.100 ALPHA (3) = 4.120 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0198	.0039	.0009
.200	-.0506	-.0595	-.0645
.410	-.0973	-.0864	-.0993
.590	-.1251	-.1211	-.1281
.770		-.1628	-.1637
.950	-.1747	-.1698	-.1568

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN02)

BETA (5) = 10.100 ALPHA (4) = 6.240 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0773	.0594	.0485
.200	.0009	-.0079	-.0208
.410	-.0476	-.0396	-.0585
.590	-.0803	-.0842	-.0912
.770		-.1269	-.1275
.950	-.1398	-.1378	-.1239

BETA (5) = 10.100 ALPHA (5) = 8.250 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1310	.1081	.0972
.200	.0535	.0406	.0228
.410	.0019	.0029	-.0178
.590	-.0377	-.0407	-.0546
.770		-.0903	-.0973
.950	-.1052	-.1052	-.0963

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1902	.1624	.1396
.200	.1039	.0921	.0643
.410	.0524	.0445	.0237
.590	.0078	.0009	-.0168
.770		-.0525	-.0600
.950	-.0693	-.0713	-.0614

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 21

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN03) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 2.000 THETAN = .000
PHI-M = 2.000 THETAM = .000

BETA (1) = -10.040 ALPHA (1) = .000 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1688 -.1310 -.0625
.200 -.1727 -.1608 -.1281
.410 -.2095 -.1837 -.1837
.590 -.2105 -.2015 -.2055
.770 -.2164 -.2178
.950 -.2264 -.2343 -.2234

BETA (1) = -10.040 ALPHA (2) = 2.050 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1053 -.0626 -.0089
.200 -.1202 -.1024 -.0636
.410 -.1640 -.1352 -.1262
.590 -.1739 -.1590 -.1550
.770 -.1769 -.1752
.950 -.1978 -.1988 -.1839

BETA (1) = -10.040 ALPHA (3) = 4.100 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GP DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0367 .0059 .0773
.200 -.0605 -.0426 -.0010
.410 -.1160 -.0823 -.0674
.590 -.1309 -.1111 -.1031
.770 -.1339 -.1298
.950 -.1596 -.1606 -.1448

REPRODUCIBILITY OF THE
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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 22

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (1) = -10.040 ALPHA (4) = 6.190 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0346	.0762	.1506
.200	-.0059	.0148	.0653
.410	-.0664	-.0297	-.0139
.590	-.0872	-.0654	-.0545
.770	-	.0921	-.0848
.950	-.1268	-.1229	-.1070

BETA (1) = -10.040 ALPHA (5) = 8.250 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0962	.1419	.2165
.200	.0525	.0784	.1290
.410	-.0188	.0218	-.0466
.590	-.0387	-.0149	-.0039
.770	-	.0476	-.0376
.950	-.0854	-.0834	-.0655

BETA (1) = -10.040 ALPHA (6) = 10.310 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1591	.2077	.2821
.200	.1087	.1403	.1898
.410	.0345	.0761	.1057
.590	.0118	.0335	.0474
.770	-	.0020	.0096
.950	-.0455	-.0435	-.0207

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 23

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (2) = -5.020 ALPHA (1) = .000 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1300	-.1032	-.0456
.200	-.1270	-.1191	-.0903
.410	-.1627	-.1399	-.1429
.590	-.1697	-.1598	-.1627
.770		-.1796	-.1828
.950	-.1975	-.1985	-.1886

BETA (2) = -5.020 ALPHA (2) = 2.040 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0644	-.0357	.0207
.200	-.0743	-.0614	-.0297
.410	-.1169	-.0921	-.0931
.590	-.1298	-.1179	-.1199
.770		-.1427	-.1455
.950	-.1655	-.1645	-.1516

BETA (2) = -5.020 ALPHA (3) = 4.080 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0019	.0297	.0842
.200	-.0158	-.0059	.0247
.410	-.0704	-.0456	-.0426
.590	-.0882	-.0753	-.0733
.770		-.1031	-.1039
.950	-.1328	-.1289	-.1150

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (2) = -5.020 ALPHA (4) = 6.170 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0664	.1002	.1488
.200	.0357	.0535	.0843
.410	-.0218	.0069	.0118
.590	-.0446	-.0307	-.0298
.770		-.0625	-.0601
.950	-.0913	-.0943	-.0814

BETA (2) = -5.020 ALPHA (5) = 8.260 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1369	.1667	.2165
.200	.0952	.1121	.1469
.410	.0307	.0595	.0674
.590	.0019	.0168	.0238
.770		-.0188	-.0151
.950	-.0516	-.0546	-.0387

BETA (2) = -5.020 ALPHA (6) = 10.300 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2025	.2324	.2792
.200	.1518	.1686	.2035
.410	.0803	.1111	.1210
.590	.0476	.0634	.0704
.770		.0227	.0299
.950	-.0149	-.0149	-.0020

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 25

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (3) = .010 ALPHA (1) = .000 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1216	-.0998	-.0583
.200	-.1117	-.1048	-.0840
.410	-.1424	-.1256	-.1325
.590	-.1562	-.1503	-.1513
.770	-.1730	-.1732	
.950	-.1908	-.1898	-.1790

BETA (3) = .010 ALPHA (2) = 2.050 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0575	-.0347	.0049
.200	-.0575	-.0506	-.0288
.410	-.0982	-.0803	-.0833
.590	-.1171	-.1081	-.1101
.770	-.1359	-.1378	
.950	-.1607	-.1577	-.1438

BETA (3) = .010 ALPHA (3) = 4.090 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0079	.0277	.0655
.200	-.0010	.0029	.0228
.410	-.0526	-.0347	-.0367
.590	-.0745	-.0675	-.0675
.770	-.0993	-.0996	
.950	-.1261	-.1251	-.1082

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (3) = .010 ALPHA (4) = 6.160 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0738	.0906	.1231
.200	.0512	.0591	.0768
.410	-.0039	.0137	.0098
.590	-.0305	-.0236	-.0246
.770		-.0611	-.0597
.950	-.0897	-.0877	-.0729

BETA (3) = .010 ALPHA (5) = 8.250 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1432	.1570	.1818
.200	.1086	.1126	.1333
.410	.0474	.0642	.0602
.590	.0157	.0227	.0207
.770		-.0178	-.0206
.950	-.0484	-.0504	-.0375

BETA (3) = .010 ALPHA (6) = 10.300 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2091	.2210	.2399
.200	.1624	.1703	.1833
.410	.1010	.1148	.1109
.590	.0584	.0683	.0663
.770		.0227	.0253
.950	-.0079	-.0089	.0019

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 27

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (4) = 5.060 ALPHA (1) = -.010 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1436	-.1238	-.0971
.200	-.1248	-.1238	-.1070
.410	-.1555	-.1397	-.1446
.590	-.1704	-.1644	-.1664
.770		-.1912	-.1881
.950	-.2120	-.2060	-.1892

BETA (4) = 5.060 ALPHA (2) = 2.030 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0819	-.0641	-.0414
.200	-.0720	-.0691	-.0602
.410	-.1125	-.0947	-.1046
.590	-.1332	-.1243	-.1263
.770		-.1579	-.1572
.950	-.1806	-.1757	-.1599

BETA (4) = 5.060 ALPHA (3) = 4.090 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0138	-.0039	.0138
.200	-.0188	-.0168	-.0099
.410	-.0624	-.0515	-.0594
.590	-.0911	-.0842	-.0892
.770		-.1218	-.1207
.950	-.1476	-.1446	-.1278

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 28

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (4) = 5.060 ALPHA (4) = 6.160 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0505	.0564	.0693
.200	.0336	.0346	.0396
.410	-.0129	-.0049	-.0158
.590	-.0456	-.0436	-.0495
.770		-.0852	-.0848
.950	-.1130	-.1110	-.0942

BETA (4) = 5.060 ALPHA (5) = 8.250 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1178	.1178	.1208
.200	.0911	.0891	.0881
.410	.0396	.0435	.0287
.590	-.0010	.0000	-.0069
.770		-.0456	-.0454
.950	-.0753	-.0753	-.0594

BETA (4) = 5.060 ALPHA (6) = 10.330 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1825	.1806	.1746
.200	.1438	.1418	.1388
.410	.0902	.0922	.0773
.590	.0476	.0456	.0347
.770		-.0039	-.0083
.950	-.0357	-.0377	-.0268

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 29

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (5) = 10.110 ALPHA (1) = .000 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1909	-.1701	-.1551
.200	-.1611	-.1561	-.1522
.410	-.1880	-.1720	-.1780
.590	-.2069	-.1959	-.1989
.770	-.2297	-.2227	
.950	-.2556	-.2407	-.2228

BETA (5) = 10.110 ALPHA (2) = 2.030 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1300	-.1161	-.1102
.200	-.1121	-.1092	-.1092
.410	-.1449	-.1330	-.1429
.590	-.1687	-.1628	-.1677
.770	-.1995	-.1930	
.950	-.2253	-.2134	-.1955

BETA (5) = 10.110 ALPHA (3) = 4.080 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0645	-.0605	-.0605
.200	-.0575	-.0635	-.0674
.410	-.0982	-.0893	-.1061
.590	-.1299	-.1280	-.1309
.770	-.1657	-.1657	
.950	-.1934	-.1835	-.1657

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 30

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN03)

BETA (5) = 10.110 ALPHA (4) = 6.220 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0000	-.0020	-.0099
.200	-.0059	-.0129	-.0218
.410	-.0496	-.0476	-.0644
.590	-.0853	-.0843	-.0942
.770		-.1319	-.1298
.950	-.1597	-.1507	-.1349

BETA (5) = 10.110 ALPHA (5) = 8.250 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0624	.0535	.0356
.200	.0445	.0366	.0207
.410	-.0020	-.0039	-.0258
.590	-.0406	-.0446	-.0565
.770		-.0942	-.0972
.950	-.1239	-.1180	-.1041

BETA (5) = 10.100 ALPHA (6) = 10.320 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1291	.1112	.0834
.200	.0993	.0863	.0635
.410	.0456	.0397	.0168
.590	.0009	-.0049	-.0169
.770		-.0576	-.0624
.950	-.0874	-.0864	-.0735

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 31

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN04) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 4.000 THETAN = .000
PHI-M = 4.000 THETAM = .000

BETA (1) = -10.030 ALPHA (1) = -.010 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2035 -.1588 -.0764
.200 -.1846 -.1697 -.1300
.410 -.2124 -.1856 -.1767
.590 -.2114 -.2015 -.2035
.770 -.2174 -.2155
.950 -.2362 -.2382 -.2303

BETA (1) = -10.020 ALPHA (2) = 2.010 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1386 -.0910 -.0079
.200 -.1277 -.1049 -.0633
.410 -.1663 -.1316 -.1207
.590 -.1732 -.1564 -.1524
.770 -.1782 -.1756
.950 -.2029 -.2029 -.1910

BETA (1) = -10.030 ALPHA (3) = 4.090 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0744 -.0188 -.0654
.200 -.0724 -.0476 -.0020
.410 -.1191 -.0833 -.0655
.590 -.1340 -.1121 -.1072
.770 -.1359 -.1310
.950 -.1717 -.1667 -.1538

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 32

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (1) = -10.020 ALPHA (4) = 6.150 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0059	.0505	.1349
.200	-.0129	.0128	.0604
.410	-.0704	-.0297	-.0079
.590	-.0883	-.0665	-.0555
.770	-.0952	-.0871	
.950	-.1319	-.1300	-.1101

BETA (1) = -10.020 ALPHA (5) = 8.220 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0641	.1203	.2043
.200	.0433	.0730	.1262
.410	-.0227	.0226	.0493
.590	-.0444	-.0168	-.0049
.770		-.0503	-.0396
.950	-.0947	-.0868	-.0710

BETA (1) = -10.020 ALPHA (6) = 10.290 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1315	.1930	.2724
.200	.1019	.1375	.1910
.410	.0306	.0771	.1058
.590	.0039	.0316	.0464
.770		-.0010	.0085
.950	-.0564	-.0485	-.0277

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 33

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (2) = -5.020 ALPHA (1) = -.030 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1755	-.1380	-.0700
.200	-.1390	-.1272	-.0986
.410	-.1637	-.1439	-.1430
.590	-.1716	-.1637	-.1656
.770		-.1834	-.1861
.950	-.2051	-.2080	-.1972

BETA (2) = -5.020 ALPHA (2) = 2.040 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1059	-.0663	.0019
.200	-.0791	-.0673	-.0366
.410	-.1177	-.0940	-.0930
.590	-.1316	-.1207	-.1207
.770		-.1445	-.1464
.950	-.1702	-.1702	-.1593

BETA (2) = -5.020 ALPHA (3) = 4.070 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0415	.0000	.0662
.200	-.0227	-.0079	.0217
.410	-.0702	-.0435	-.0386
.590	-.0900	-.0781	-.0762
.770		-.1058	-.1048
.950	-.1365	-.1335	-.1207

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 34

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (2) = -5.020 ALPHA (4) = 6.140 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0267	.0704	.1339
.200	.0277	.0456	.0833
.410	-.0298	.0049	.0178
.590	-.0526	-.0317	-.0278
.770		-.0635	-.0624
.950	-.1042	-.0943	-.0814

BETA (2) = -5.020 ALPHA (5) = 8.270 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1020	.1386	.1972
.200	.0911	.1109	.1446
.410	.0287	.0584	.0683
.590	.0000	.0197	.0197
.770		-.0208	-.0162
.950	-.0614	-.0564	-.0396

BETA (2) = -5.020 ALPHA (6) = 10.300 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1693	.2081	.2648
.200	.1495	.1683	.2012
.410	.0822	.1089	.1238
.590	.0455	.0643	.0693
.770		.0257	.0298
.950	-.0218	-.0138	.0009

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 35

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (3) = .000 ALPHA (1) = -.020 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1689	- .1382	- .0869
.200	-.1185	-.1116	-.0918
.410	-.1432	- .1264	-.1333
.590	-.1550	- .1511	-.1540
.770		-.1738	- .1763
.950	-.1945	-.1935	-.1827

BETA (3) = .000 ALPHA (2) = 2.010 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1049	-.0732	-.0247
.200	-.0623	-.0524	-.0376
.410	-.0950	-.0772	-.0861
.590	-.1148	-.1089	-.1128
.770		-.1386	-.1397
.950	-.1643	-.1584	-.1485

BETA (3) = .000 ALPHA (3) = 4.070 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0347	-.0069	.0386
.200	-.0069	-.0049	.0168
.410	-.0515	-.0337	-.0396
.590	-.0763	-.0694	-.0704
.770		-.1031	-.1039
.950	-.1299	-.1249	-.1130

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 36

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (3) = .000 ALPHA (4) = 6.140 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0347	.0615	.1012
.200	.0496	.0575	.0714
.410	-.0010	.0139	.0118
.590	-.0298	-.0238	-.0288
.770		-.0615	-.0601
.950	-.0923	-.0864	-.0754

BETA (3) = .000 ALPHA (5) = 8.240 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1038	.1305	.1592
.200	.1068	.1117	.1286
.410	.0474	.0633	.0613
.590	.0177	.0266	.0177
.770		-.0168	-.0229
.950	-.0485	-.0475	-.0346

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1722	.1921	.2199
.200	.1633	.1682	.1812
.410	.0989	.1138	.1108
.590	.0613	.0663	.0653
.770		.0227	.0197
.950	-.0178	-.0128	.0019

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 37

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (4) = 5.050 ALPHA (1) = -.020 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1910	-.1633	-.1306
.200	-.1316	-.1267	-.1138
.410	-.1524	-.1385	-.1465
.590	-.1692	-.1643	-.1673
.770		-.1930	-.1913
.950	-.2138	-.2078	-.1950

BETA (4) = 5.050 ALPHA (2) = 2.010 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (.1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1325	-.1018	-.0712
.200	-.0840	-.0741	-.0662
.410	-.1147	-.0969	-.1028
.590	-.1355	-.1256	-.1305
.770		-.1582	-.1575
.950	-.1908	-.1819	-.1641

BETA (4) = 5.050 ALPHA (3) = 4.070 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0594	-.0416	-.0178
.200	-.0227	-.0227	-.0168
.410	-.0653	-.0524	-.0614
.590	-.0911	-.0861	-.0911
.770		-.1257	-.1240
.950	-.1534	-.1445	-.1307

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (4) = 5.050 ALPHA (4) = 6.160 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0099	.0228	.0406
.200	.0307	.0327	.0317
.410	-.0149	-.0069	-.0149
.590	-.0496	-.0447	-.0506
.770	-.0854	-.0871	-.0871
.950	-.1171	-.1122	-.0953

BETA (4) = 5.050 ALPHA (5) = 8.210 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0771	.0861	.0950
.200	.0880	.0821	.0831
.410	.0375	.0425	.0306
.590	-.0020	-.0020	-.0099
.770	-.0465	-.0498	-.0498
.950	-.0802	-.0742	-.0604

BETA (4) = 5.050 ALPHA (6) = 10.290 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1470	.1480	.1480
.200	.1411	.1352	.1292
.410	.0878	.0868	.0730
.590	.0434	.0414	.0315
.770	-.0059	-.0116	-.0116
.950	-.0434	-.0365	-.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 39

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.775 P0/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2422	-.2174	-.1966
.200	-.1698	-.1648	-.1588
.410	-.1916	-.1717	-.1797
.590	-.2105	-.1995	-.2015
.770		-.2333	-.2257
.950	-.2601	-.2472	-.2293

BETA (5) = 10.080 ALPHA (2) = 2.070 Q(PSF) = 42.775 P0/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1792	-.1603	-.1453
.200	-.1185	-.1165	-.1135
.410	-.1493	-.1354	-.1443
.590	-.1762	-.1643	-.1672
.770		-.2031	-.1947
.950	-.2349	-.2190	-.2011

BETA (5) = 10.090 ALPHA (3) = 4.100 Q(PSF) = 42.775 P0/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1124	-.1005	-.0955
.200	-.0696	-.0686	-.0746
.410	-.1015	-.0945	-.1064
.590	-.1343	-.1283	-.1363
.770		-.1711	-.1675
.950	-.2020	-.1890	-.1721

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 40

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN04)

BETA (5) = 10.090 ALPHA (4) = 6.160 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0475	-.0415	-.0475
.200	-.0168	-.0208	-.0316
.410	-.0554	-.0514	-.0683
.590	-.0920	-.0900	-.0999
.770	-.1356	-.1351	
.950	-.1682	-.1553	-.1425

BETA (5) = 10.090 ALPHA (5) = 8.220 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0238	.0188	.0019
.200	.0387	.0307	.0118
.410	-.0049	-.0049	-.0248
.590	-.0447	-.0496	-.0596
.770		-.0973	-.1007
.950	-.1271	-.1191	-.1062

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0872	.0753	.0525
.200	.0922	.0763	.0555
.410	.0416	.0366	.0148
.590	-.0020	-.0099	-.0218
.770		-.0595	-.0679
.950	-.0932	-.0843	-.0744

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 41

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 6.000 THETAN = .000
PHI-M = 6.000 THETAM = 1.100

BETA (1) = -10.020 ALPHA (1) = .020 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25 000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2161 -.1884 -.1021
.200 -.1904 -.1695 -.1279
.410 -.2161 -.1864 -.1755
.590 -.2161 -.2023 -.2032
.770 -.2171 -.2198
.950 -.2399 -.2459 -.2370

BETA (1) = -10.020 ALPHA (2) = 2.070 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1537 -.1209 -.0297
.200 -.1428 -.1130 -.0674
.410 -.1715 -.1368 -.1190
.590 -.1765 -.1596 -.1557
.770 -.1785 -.1770
.950 -.2072 -.2072 -.1993

BETA (1) = -10.020 ALPHA (3) = 4.150 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0872 -.0446 .0435
.200 -.0832 -.0515 -.0010
.410 -.1209 -.0822 -.0614
.590 -.1318 -.1100 -.1030
.770 -.1347 -.1308
.950 -.1714 -.1684 -.1565

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 42

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (1) = -10.020 ALPHA (4) = 6.210 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0189	.0268	.1154
.200	-.0259	.0099	.0636
.410	-.0706	-.0298	-.0020
.590	-.0886	-.0667	-.0567
.770	-.0896	-.0874	
.950	-.1373	-.1324	-.1164

BETA (1) = -10.020 ALPHA (5) = 8.290 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0523	.0988	.1849
.200	.0296	.0711	.1275
.410	-.0227	.0256	.0543
.590	-.0415	-.0178	-.0039
.770		-.0484	-.0386
.950	-.0989	-.0880	-.0722

BETA (1) = -10.020 ALPHA (6) = 10.360 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1176	.1730	.2534
.200	.0909	.1344	.1879
.410	.0306	.0781	.1117
.590	.0019	.0326	.0454
.770		-.0039	.0107
.950	-.0593	-.0465	-.0306

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 43

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (2) = -5.010 ALPHA (1) = .010 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2108	-.1692	-.1039
.200	-.1494	-.1326	-.1009
.410	-.1652	-.1445	-.1425
.590	-.1702	-.1613	-.1672
.770		-.1811	-.1857
.950	-.2088	-.2088	-.2009

BETA (2) = -5.010 ALPHA (2) = 2.090 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1445	-.1000	-.0326
.200	-.0920	-.0742	-.0396
.410	-.1168	-.0930	-.0901
.590	-.1277	-.1168	-.1217
.770		-.1435	-.1453
.950	-.1742	-.1732	-.1633

BETA (2) = -5.010 ALPHA (3) = 4.180 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0772	-.0297	.0366
.200	-.0327	-.0129	.0217
.410	-.0654	-.0416	-.0327
.590	-.0842	-.0723	-.0733
.770		-.1020	-.1027
.950	-.1387	-.1357	-.1258

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 44

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (2) = -5.010 ALPHA (4) = 6.190 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0089	.0384	.1016
.200	.0285	.0453	.0799
.410	-.0187	.0068	.0197
.590	-.0434	-.0296	-.0296
.770		-.0631	-.0609
.950	-.1026	-.0967	-.0858

BETA (2) = -5.010 ALPHA (5) = 8.260 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0664	.1111	.1756
.200	.0853	.1061	.1388
.410	.0327	.0575	.0724
.590	.0029	.0168	.0178
.770		-.0178	-.0162
.950	-.0655	-.0575	-.0446

BETA (2) = -5.010 ALPHA (6) = 10.340 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1359	.1803	.2357
.200	.1428	.1635	.1951
.410	.0837	.1133	.1270
.590	.0482	.0660	.0669
.770		.0226	.0297
.950	-.0266	-.0157	-.0019

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 45

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (3) = .020 ALPHA (1) = .010 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2095	-.1818	-.1334
.200	-.1364	-.1215	-.0988
.410	-.1383	-.1255	-.1344
.590	-.1522	-.1492	-.1541
.770		-.1729	-.1742
.950	-.2016	-.1966	-.1897

BETA (3) = .020 ALPHA (2) = 2.060 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1462	-.1156	-.0691
.200	-.0751	-.0642	-.0425
.410	-.0919	-.0800	-.0849
.590	-.1116	-.1077	-.1126
.770		-.1363	-.1394
.950	-.1689	-.1610	-.1541

BETA (3) = .020 ALPHA (3) = 4.110 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0753	-.0485	-.0079
.200	-.0148	-.0099	.0108
.410	-.0476	-.0307	-.0337
.590	-.0713	-.0664	-.0713
.770		-.1001	-.1005
.950	-.1348	-.1278	-.1160

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 46

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (3) = .020 ALPHA (4) = 6.220 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0079	.0197	.0583
.200	.0434	.0494	.0691
.410	.0059	.0197	.0157
.590	-.0247	-.0198	-.0277
.770		.0583	.0599
.950	-.0969	-.0880	-.0781

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BETA (3) = .020 ALPHA (5) = 8.270 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0642	.0929	.1206
.200	.0998	.1058	.1196
.410	.0514	.0662	.0613
.590	.0187	.0237	.0167
.770		-.0198	-.0195
.950	-.0613	-.0514	-.0425

BETA (3) = .020 ALPHA (6) = 10.340 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1371	.1559	.1796
.200	.1559	.1638	.1727
.410	.1016	.1164	.1135
.590	.0631	.0661	.0601
.770		.0246	.0219
.950	-.0237	-.0128	-.0029

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 47

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (4) = 5.030 ALPHA (1) = .020 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2164	-.2164	-.1799
.200	-.1502	-.1374	-.1235
.410	-.1512	-.1364	-.1433
.590	-.1680	-.1611	-.1670
.770		-.1917	-.1877
.950	-.2184	-.2105	-.1996

BETA (4) = 5.030 ALPHA (2) = 2.050 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1534	-.1504	-.1227
.200	-.0890	-.0831	-.0732
.410	-.1059	-.0930	-.1019
.590	-.1306	-.1237	-.1296
.770		-.1583	-.1576
.950	-.1880	-.1791	-.1682

BETA (4) = 5.030 ALPHA (3) = 4.120 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0802	-.0832	-.0663
.200	-.0297	-.0327	-.0247
.410	-.0584	-.0525	-.0564
.590	-.0851	-.0822	-.0881
.770		-.1208	-.1218
.950	-.1515	-.1416	-.1307

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (4) = 5.030 ALPHA (4) = 6.190 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0198	-.0227	-.0109
.200	.0227	.0237	.0247
.410	-.0168	-.0029	-.0118
.590	-.0475	-.0455	-.0524
.770		-.0860	-.0880
.950	-.1197	-.1118	-.1009

BETA (4) = 5.030 ALPHA (5) = 8.260 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0504	.0395	.0455
.200	.0811	.0752	.0722
.410	.0316	.0415	.0316
.590	-.0029	-.0020	-.0099
.770		-.0495	-.0510
.950	-.0841	-.0772	-.0653

BETA (4) = 5.030 ALPHA (6) = 10.340 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1236	.1029	.1019
.200	.1365	.1296	.1227
.410	.0841	.0880	.0781
.590	.0445	.0405	.0326
.770		-.0059	-.0128
.950	-.0435	-.0376	-.0287

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA153 (NAAL-751)

PAGE 49

OA153 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (5) = 10.060 ALPHA (1) = .000 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	-.3018	-.2731	-.2434
.200	-.1900	-.1781	-.1742
.410	-.1930	-.1751	-.1821
.590	-.2157	-.1999	-.2038
.770	-.2355	-.2250	
.950	-.2672	-.2514	-.2325

BETA (5) = 10.060 ALPHA (2) = 2.080 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	-.2329	-.2131	-.1952
.200	-.1338	-.1269	-.1298
.410	-.1516	-.1358	-.1427
.590	-.1764	-.1655	-.1705
.770	-.2052	-.1950	
.950	-.2349	-.2220	-.2032

BETA (5) = 10.060 ALPHA (3) = 4.200 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5540

X/CNL

.040	-.1625	-.1457	-.1467
.200	-.0783	-.0763	-.0832
.410	-.1060	-.0941	-.1041
.590	-.1388	-.1269	-.1348
.770	-.1715	-.1646	
.950	-.2052	-.1893	-.1735

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 50

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN05)

BETA (5) = 10.060 ALPHA (4) = 6.210 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0923	-.0874	-.0953
.200	-.0278	-.0318	-.0447
.410	-.0616	-.0536	-.0685
.590	-.0973	-.0894	-.0993
.770		-.1390	-.1356
.950	-.1688	-.1579	-.1420

BETA (5) = 10.060 ALPHA (5) = 8.320 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0158	-.0198	-.0145
.200	.0286	.0197	.0000
.410	-.0138	-.0099	-.0257
.590	-.0535	-.0505	-.0634
.770		-.1010	-.0993
.950	-.1337	-.1238	-.1079

BETA (5) = 10.060 ALPHA (6) = 10.370 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0554	.0395	-.0010
.200	.0811	.0663	.0425
.410	.0336	.0346	.0128
.590	-.0099	-.0089	-.0257
.770		-.0644	-.0667
.950	-.0970	-.0901	-.0772

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 51

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPCBRK = 25.000
PHI-N = 8.000 THETAN = 1.000
PHI-M = 8.000 THETAM = 1.100

BETA (1) = -10.050 ALPHA (1) = .020 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3251 -.2141 -.1259
.200 -.1982 -.1725 -.1318
.410 -.2230 -.1913 -.1863
.590 -.2230 -.2032 -.2022
.770 -.2250 -.2186
.950 -.2458 -.2458 -.2399

BETA (1) = -10.050 ALPHA (2) = 2.100 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2556 -.1407 -.0535
.200 -.1486 -.1149 -.0693
.410 -.1783 -.1407 -.1288
.590 -.1813 -.1595 -.1545
.770 -.1852 -.1758
.950 -.2100 -.2090 -.1991

BETA (1) = -10.060 ALPHA (3) = 4.170 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1724 -.0624 -.0237
.200 -.0921 -.0525 -.0020
.410 -.1288 -.0842 -.0644
.590 -.1387 -.1129 -.1040
.770 -.1417 -.1308
.950 -.1744 -.1664 -.1575

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 52

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (1) = -10.060 ALPHA (4) = 6.210 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0711	.0108	.0938
.200	-.0346	.0039	.0602
.410	-.0820	-.0326	-.0069
.590	-.0968	-.0662	-.0553
.770		-.0988	-.0845
.950	-.1374	-.1275	-.1136

BETA (1) = -10.060 ALPHA (5) = 8.300 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0246	.0888	.1688
.200	.0226	.0720	.1254
.410	-.0296	.0236	.0493
.590	-.0494	-.0148	-.0029
.770		-.0523	-.0363
.950	-.0997	-.0849	-.0721

BETA (1) = -10.060 ALPHA (6) = 10.370 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1107	.1650	.2414
.200	.0810	.1284	.1858
.410	.0207	.0751	.1057
.590	-.0039	.0325	.0474
.770		-.0079	.0129
.950	-.0613	-.0474	-.0306

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 53

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (2) = -5.030 ALPHA (1) = .010 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2225	-.1889	-.1296
.200	-.1582	-.1365	-.1068
.410	-.1711	-.1493	-.1533
.590	-.1711	-.1622	-.1662
.770	-.1849	-.1867	
.950	-.2057	-.2037	-.1988

BETA (2) = -5.040 ALPHA (2) = 2.070 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1543	-.1147	-.0584
.200	-.1009	-.0771	-.0445
.410	-.1217	-.0979	-.0999
.590	-.1276	-.1177	-.1157
.770		-.1454	-.1452
.950	-.1692	-.1642	-.1612

BETA (2) = -5.040 ALPHA (3) = 4.180 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0813	-.0456	.0118
.200	-.0416	-.0188	.0168
.410	-.0714	-.0466	-.0426
.590	-.0833	-.0714	-.0714
.770		-.1041	-.1017
.950	-.1289	-.1249	-.1190

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (2) = -5.040 ALPHA (4) = 6.210 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0069	.0228	.0793
.200	.0148	.0406	.0734
.410	-.0218	.0059	.0099
.590	-.0427	-.0278	-.0268
.770		-.0655	-.0590
.950	-.0933	-.0854	-.0794

BETA (2) = -5.030 ALPHA (5) = 8.290 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0712	.0989	.1524
.200	.0762	.1029	.1346
.410	.0276	.0583	.0682
.590	.0069	.0207	.0227
.770		-.0188	-.0117
.950	-.0495	-.0425	-.0366

BETA (2) = -5.040 ALPHA (6) = 10.340 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1405	.1692	.2158
.200	.1335	.1583	.1950
.410	.0840	.1127	.1226
.590	.0524	.0692	.0732
.770		.0237	.0332
.950	-.0109	-.0029	.0069

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 55

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2622	-.2137	-.1662
.200	-.1355	-.1256	-.1019
.410	-.1474	-.1335	-.1434
.590	-.1504	-.1474	-.1533
.770	-.1741	-.1733	
.950	-.1919	-.1880	-.1850

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1882	-.1476	-.1020
.200	-.0822	-.0683	-.0475
.410	-.0980	-.0842	-.0931
.590	-.1079	-.1069	-.1129
.770		-.1376	-.1353
.950	-.1535	-.1535	-.1495

BETA (3) = -.010 ALPHA (3) = 4.120 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1099	-.0792	-.0356
.200	-.0228	-.0119	.0059
.410	-.0485	-.0356	-.0436
.590	-.0654	-.0634	-.0693
.770		-.1010	-.0982
.950	-.1139	-.1149	-.1099

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 56

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0366	-.0129	.0306
.200	.0346	.0415	.0604
.410	.0009	.0118	.0069
.590	-.0238	-.0198	-.0277
.770		-.0614	-.0600
.950	-.0782	-.0782	-.0723

BETA (3) = -.010 ALPHA (5) = 8.280 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0415	.0584	.0960
.200	.0910	.0990	.1128
.410	.0524	.0623	.0574
.590	.0207	.0257	.0197
.770		-.0208	-.0173
.950	-.0386	-.0376	-.0327

BETA (3) = -.010 ALPHA (6) = 10.350 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1205	.1254	.1550
.200	.1511	.1540	.1699
.410	.1027	.1126	.1096
.590	.0661	.0711	.0641
.770		.0226	.0253
.950	-.0010	.0039	.0068

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 57

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (4) = 5.020 ALPHA (1) = .000 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4643	-.2604	-.2297
.200	-.1564	-.1406	-.1267
.410	-.1614	-.1435	-.1554
.590	-.1673	-.1633	-.1673
.770		-.1980	-.1880
.950	-.2128	-.2059	-.1960

BETA (4) = 5.020 ALPHA (2) = 2.070 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4035	-.1968	-.1760
.200	-.0989	-.0860	-.0781
.410	-.1127	-.0989	-.1127
.590	-.1305	-.1256	-.1285
.770		-.1632	-.1564
.950	-.1760	-.1711	-.1622

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3447	-.1357	-.1159
.200	-.0406	-.0337	-.0287
.410	-.0663	-.0535	-.0644
.590	-.0881	-.0832	-.0901
.770		-.1258	-.1207
.950	-.1426	-.1367	-.1268

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 58

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (4) = 5.020 ALPHA (4) = 6.180 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2730	-.0692	-.0603
.200	.0148	.0187	.0167
.410	-.0208	-.0089	-.0217
.590	-.0475	-.0445	-.0514
.770		-.0900	-.0835
.950	-.1068	-.1019	-.0900

BETA (4) = 5.020 ALPHA (5) = 8.270 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1858	.0019	-.0029
.200	.0751	.0731	.0671
.410	.0325	.0375	.0256
.590	-.0020	-.0020	-.0099
.770		-.0514	-.0475
.950	-.0692	-.0632	-.0543

BETA (4) = 5.020 ALPHA (6) = 10.370 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0849	.0710	.0493
.200	.1313	.1263	.1155
.410	.0829	.0868	.0720
.590	.0493	.0434	.0315
.770		-.0108	-.0071
.950	-.0276	-.0237	-.0158

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 59

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5171	-.3714	-.3239
.200	-.2050	-.1803	-.1743
.410	-.2040	-.1822	-.1892
.590	-.2248	-.2040	-.2030
.770		-.2437	-.2241
.950	-.2664	-.2456	-.2298

BETA (5) = 10.070 ALPHA (2) = 2.050 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3874	-.3252	-.2738
.200	-.1522	-.1334	-.1304
.410	-.1621	-.1413	-.1532
.590	-.1848	-.1690	-.1690
.770		-.2135	-.1944
.950	-.2313	-.2164	-.1996

BETA (5) = 10.070 ALPHA (3) = 4.110 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2435	-.2761	-.2187
.200	-.1019	-.0891	-.0871
.410	-.1148	-.1029	-.1148
.590	-.1484	-.1316	-.1376
.770		-.1811	-.1644
.950	-.1979	-.1831	-.1672

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 60

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN06)

BETA (5) = 10.070 ALPHA (4) = 6.230 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1068	-.2303	-.1631
.200	-.0455	-.0395	-.0415
.410	-.0682	-.0583	-.0741
.590	-.1028	-.0909	-.0998
.770		-.1473	-.1294
.950	-.1601	-.1483	-.1325

BETA (5) = 10.070 ALPHA (5) = 8.280 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0059	-.1792	-.1109
.200	.0108	.0098	.0009
.410	-.0218	-.0188	-.0327
.590	-.0604	-.0535	-.0643
.770		-.1089	-.0982
.950	-.1238	-.1129	-.1000

BETA (5) = 10.070 ALPHA (6) = 10.340 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0859	-.1136	-.0602
.200	.0681	.0553	.0444
.410	.0276	.0266	.0049
.590	-.0148	-.0168	-.0257
.770		-.0721	-.0632
.950	-.0859	-.0770	-.0652

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 61

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN07) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 10.000 THETAN = 1.300
PHI-M = 10.000 THETAM = 1.600

BETA (1) = -10.070 ALPHA (1) = .000 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.3466 -.2040 -.1168
.200 -.1901 -.1654 -.1267
.410 -.2189 -.1872 -.1832
.590 -.2208 -.2040 -.2010
.770 -.2198 -.0881
.950 -.2446 -.2486 -.2416

BETA (1) = -10.070 ALPHA (2) = 2.060 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.2616 -.1246 -.0416
.200 -.1377 -.1060 -.0604
.410 -.1724 -.1347 -.1229
.590 -.1783 -.1575 -.1526
.770 -.1774 -.1072
.950 -.2101 -.2071 -.2011

BETA (1) = -10.070 ALPHA (3) = 4.120 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.1642 -.0504 .0316
.200 -.0841 -.0425 .0039
.410 -.1207 -.0811 -.0663
.590 -.1346 -.1108 -.1019
.770 -.1336 -.1183
.950 -.1712 -.1672 -.1573

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (1) = -10.070 ALPHA (4) = 6.180 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0674	.0267	.1030
.200	-.0248	.0178	.0693
.410	-.0733	-.0297	-.0029
.590	-.0921	-.0604	-.0515
.770		-.0941	-.1174
.950	-.1348	-.1278	-.1169

BETA (1) = -10.070 ALPHA (5) = 8.270 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0356	.1060	.1774
.200	.0336	.0782	.1327
.410	-.0208	.0267	.0574
.590	-.0446	-.0119	.0000
.770		-.0456	-.1095
.950	-.0941	-.0822	-.0733

BETA (1) = -10.070 ALPHA (6) = 10.330 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1128	.1792	.2497
.200	.0890	.1385	.1971
.410	.0257	.0821	.1118
.590	-.0010	.0356	.0514
.770		.0019	-.0970
.950	-.0554	-.0406	-.0267

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 63

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (2) = -5.050 ALPHA (1) = -.010 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4249	-.2164	-.1423
.200	-.1472	-.1304	-.1027
.410	-.1709	-.1502	-.1512
.590	-.1680	-.1620	-.1630
.770		-.1798	-.0688
.950	-.2035	-.2035	-.2006

BETA (2) = -5.050 ALPHA (2) = 2.090 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3418	-.1456	-.0683
.200	-.0961	-.0763	-.0426
.410	-.1209	-.0971	-.0991
.590	-.1268	-.1159	-.1179
.770		-.1387	-.0836
.950	-.1664	-.1684	-.1635

BETA (2) = -5.040 ALPHA (3) = 4.090 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2730	-.0712	-.0010
.200	-.0395	-.0178	.0177
.410	-.0732	-.0475	-.0455
.590	-.0831	-.0722	-.0722
.770		-.0999	-.0902
.950	-.1305	-.1266	-.1226

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 64

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (2) = -5.040 ALPHA (4) = 6.200 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2000	.0069	.0702
.200	.0197	.0445	.0811
.410	-.0208	.0059	.0128
.590	-.0386	-.0277	-.0237
.770	-.0534	-.0835	
.950	-.0881	-.0861	-.0782

BETA (2) = -5.040 ALPHA (5) = 8.270 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0979	.0850	.1384
.200	.0790	.1028	.1393
.410	.0306	.0602	.0672
.590	.0088	.0207	.0246
.770		-.0118	-.0722
.950	-.0455	-.0455	-.0356

BETA (2) = -5.040 ALPHA (6) = 10.310 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0069	.1633	.2109
.200	.1375	.1643	.1990
.410	.0841	.1148	.1217
.590	.0544	.0702	.0742
.770		.0316	-.0555
.950	-.0039	-.0020	.0069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 65

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5221	-.2536	-.1872
.200	-.1228	-.1198	-.1000
.410	-.1436	-.1327	-.1436
.590	-.1506	-.1476	-.1525
.770		-.1694	-.0768
.950	-.1912	-.1902	-.1862

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4801	-.1880	-.1257
.200	-.0693	-.0643	-.0465
.410	-.0980	-.0841	-.0970
.590	-.1089	-.1069	-.1118
.770		-.1336	-.0880
.950	-.1544	-.1554	-.1504

BETA (3) = .000 ALPHA (3) = 4.080 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4034	-.1170	-.0684
.200	-.0129	-.0089	.0079
.410	-.0476	-.0367	-.0446
.590	-.0664	-.0634	-.0684
.770		-.0961	-.0881
.950	-.1150	-.1179	-.1120

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 66

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (3) = .000 ALPHA (4) = 6.170 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3222	-.0405	-.0020
.200	.0444	.0454	.0632
.410	.0019	.0098	.0039
.590	-.0217	-.0207	-.0227
.770		-.0563	-.0811
.950	-.0751	-.0781	-.0721

BETA (3) = .000 ALPHA (5) = 8.290 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2298	.0384	.0641
.200	.0996	.1045	.1173
.410	.0532	.0631	.0562
.590	.0246	.0256	.0187
.770		-.0128	-.0665
.950	-.0325	-.0375	-.0296

BETA (3) = .000 ALPHA (6) = 10.350 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1287	.1148	.1316
.200	.1574	.1603	.1722
.410	.1029	.1148	.1049
.590	.0702	.0732	.0663
.770		.0286	-.0465
.950	.0069	.0049	.0128

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ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 67

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (4) = 5.030 ALPHA (1) = -.010 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6814	-.3332	-.2479
.200	-.1537	-.1329	-.1269
.410	-.1626	-.1448	-.1557
.590	-.1676	-.1646	-.1636
.770	-.1924	-.0938	
.950	-.2093	-.2043	-.1954

BETA (4) = 5.030 ALPHA (2) = 2.010 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5908	-.2830	-.1969
.200	-.0980	-.0772	-.0772
.410	-.1148	-.0989	-.1118
.590	-.1286	-.1227	-.1257
.770		-.1554	-.1037
.950	-.1742	-.1692	-.1603

BETA (4) = 5.030 ALPHA (3) = 4.100 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4955	-.2428	-.1516
.200	-.0426	-.0287	-.0327
.410	-.0664	-.0585	-.0664
.590	-.0882	-.0862	-.0892
.770		-.1219	-.1027
.950	-.1387	-.1358	-.1229

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 68

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (4) = 5.030 ALPHA (4) = 6.170 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3854	-.2071	-.1010
.200	.0128	.0227	.0178
.410	-.0178	-.0109	-.0218
.590	-.0456	-.0426	-.0505
.770		-.0842	-.0926
.950	-.1020	-.0981	-.0892

BETA (4) = 5.030 ALPHA (5) = 8.230 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2516	-.1228	-.0356
.200	.0713	.0723	.0663
.410	.0287	.0336	.0217
.590	.0000	-.0020	-.0079
.770		-.0446	-.0769
.950	-.0624	-.0634	-.0495

BETA (4) = 5.030 ALPHA (6) = 10.310 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1178	-.0574	.0346
.200	.1266	.1256	.1157
.410	.0821	.0841	.0682
.590	.0455	.0415	.0316
.770		-.0049	-.0577
.950	-.0227	-.0218	-.0119

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 69

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (5) = 10.110 ALPHA (1) = .000 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6298	-.5445	-.3253
.200	-.2053	-.1835	-.1835
.410	-.2053	-.1845	-.1924
.590	-.2251	-.2053	-.2013
.770		-.2380	-.0421
.950	-.2638	-.2480	-.2291

BETA (5) = 10.110 ALPHA (2) = 2.040 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4582	-.4661	-.2747
.200	-.1537	-.1388	-.1378
.410	-.1606	-.1448	-.1547
.590	-.1844	-.1696	-.1686
.770		-.2073	-.0713
.950	-.2291	-.2152	-.1973

BETA (5) = 10.110 ALPHA (3) = 4.100 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3072	-.4023	-.2249
.200	-.1030	-.0931	-.0951
.410	-.1179	-.1040	-.1189
.590	-.1437	-.1338	-.1367
.770		-.1764	-.0892
.950	-.1972	-.1813	-.1635

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 70

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN07)

BETA (5) = 10.110 ALPHA (4) = 6.210 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1537	-.3431	-.1775
.200	-.0466	-.0416	-.0466
.410	-.0704	-.0624	-.0773
.590	-.1001	-.0942	-.0991
.770		-.1378	-.0960
.950	-.1576	-.1428	-.1279

BETA (5) = 10.110 ALPHA (5) = 8.250 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0317	-.3248	-.1376
.200	.0049	.0019	-.0020
.410	-.0228	-.0198	-.0396
.590	-.0584	-.0554	-.0634
.770		-.1049	-.0914
.950	-.1218	-.1089	-.0931

BETA (5) = 10.100 ALPHA (6) = 10.330 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0663	-.2653	-.0920
.200	.0613	.0504	.0425
.410	.0276	.0217	.0000
.590	-.0119	-.0138	-.0257
.770		-.0663	-.0779
.950	-.0851	-.0713	-.0574

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 71

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN08) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 15.000 THETAN = 2.000
PHI-M = 15.000 THETAM = 2.400

BETA (1) = -10.070 ALPHA (1) = .010 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4465 -.4733 -.1426
.200 -.1802 -.1564 -.1168
.410 -.2188 -.1891 -.1812
.590 -.2178 -.1990 -.1950
.770 -.2228 -.2262
.950 -.2475 -.2554 -.2505

BETA (1) = -10.070 ALPHA (2) = 2.090 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3885 -.4242 -.0337
.200 -.1229 -.0931 -.0485
.410 -.1704 -.1358 -.1229
.590 -.1774 -.1486 -.1477
.770 -.1813 -.1826
.950 -.2170 -.2190 -.2131

BETA (1) = -10.070 ALPHA (3) = 4.130 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3495 -.3416 .0635
.200 -.0685 -.0318 .0178
.410 -.1231 -.0804 -.0635
.590 -.1350 -.1042 -.0933
.770 -.1370 -.1390
.950 -.1797 -.1797 -.1718

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 72

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (1) = -10.070 ALPHA (4) = 6.220 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3088	-.2224	.1369
.200	-.0129	.0277	.0853
.410	-.0754	-.0268	-.0020
.590	-.0873	-.0546	-.0456
.770		-.0903	-.0894
.950	-.1400	-.1360	-.1310

BETA (1) = -10.080 ALPHA (5) = 8.300 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0395	-.0039	.1314
.200	-.0227	.0316	.0563
.410	-.0395	-.0909	.0088
.590	-.0909	-.0435	-.0790
.770		-.0879	-.0823
.950	-.1127	-.2589	.0335

BETA (1) = -10.070 ALPHA (6) = 10.360 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1781	.1980	.2149
.200	.0910	.1454	.2109
.410	.0306	.0890	.1128
.590	.0108	.0494	.0643
.770		.0049	.0096
.950	-.0445	-.0386	-.0257

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 73

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (2) = -5.050 ALPHA (1) = .020 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5810	-.5780	-.2860
.200	-.1247	-.1098	-.0920
.410	-.1722	-.1564	-.1564
.590	-.1722	-.1623	-.1623
.770		-.1861	-.1891
.950	-.2118	-.2128	-.2098

BETA (2) = -5.050 ALPHA (2) = 2.070 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4826	-.4944	-.2027
.200	-.0751	-.0554	-.0356
.410	-.1236	-.1038	-.1068
.590	-.1275	-.1177	-.1147
.770		-.1444	-.1485
.950	-.1760	-.1750	-.1740

BETA (2) = -5.050 ALPHA (3) = 4.160 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3942	-.4071	-.1198
.200	-.0218	.0019	.0287
.410	-.0713	-.0495	-.0505
.590	-.0812	-.0693	-.0663
.770		-.1010	-.1038
.950	-.1357	-.1377	-.1317

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 74

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (2) = -5.050 ALPHA (4) = 6.240 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3093	-.3212	-.0446
.200	.0307	.0604	.0872
.410	-.0218	.0029	.0049
.590	-.0367	-.0218	-.0178
.770		-.0595	-.0589
.950	-.0981	-.0971	-.0922

BETA (2) = -5.050 ALPHA (5) = 8.280 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2214	-.2175	.0187
.200	.0879	.1156	.1452
.410	.0325	.0592	.0602
.590	.0098	.0286	.0306
.770		-.0148	-.0116
.950	-.0563	-.0514	-.0445

BETA (2) = -5.050 ALPHA (6) = 10.340 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1383	-.1126	.0582
.200	.1452	.1739	.2036
.410	.0859	.1116	.1136
.590	.0592	.0760	.0800
.770		.0325	.0342
.950	-.0148	-.0079	.0049

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 75

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7568	-.6211	-.4735
.200	-.1317	-.0901	-.0921
.410	-.1575	-.1377	-.1505
.590	-.1585	-.1496	-.1505
.770		-.1714	-.1724
.950	-.1981	-.1951	-.1912

BETA (3) = .000 ALPHA (2) = 2.070 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6648	-.5328	-.3870
.200	-.0774	-.0377	-.0357
.410	-.1081	-.0893	-.1012
.590	-.1121	-.1052	-.1061
.770		-.1329	-.1344
.950	-.1637	-.1607	-.1568

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5702	-.4395	-.3494
.200	-.0257	-.0138	-.0217
.410	-.0554	-.0416	-.0534
.590	-.0693	-.0633	-.0613
.770		-.0960	-.0936
.950	-.1287	-.1267	-.1198

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 76

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (3) = .000 ALPHA (4) = 6.200 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4701	-.3501	-.3303
.200	.0287	.0674	.0793
.410	-.0059	.0069	-.0030
.590	-.0208	-.0188	-.0168
.770		-.0555	-.0522
.950	-.0922	-.0883	-.0793

BETA (3) = .000 ALPHA (5) = 8.280 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3620	-.2671	-.2572
.200	.0830	.1226	.1345
.410	.0444	.0563	.0474
.590	.0247	.0276	.0256
.770		-.0138	-.0116
.950	-.0504	-.0504	-.0366

BETA (3) = .000 ALPHA (6) = 10.340 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2542	-.1988	-.1642
.200	.1394	.1740	.1859
.410	.0988	.1097	.0959
.590	.0721	.0731	.0711
.770		.0276	.0298
.950	-.0138	-.0039	.0059

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 77

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (4) = 5.000 ALPHA (1) = .000 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8698	-.6608	-.5666
.200	-.1852	-.1228	-.1169
.410	-.1803	-.1595	-.1615
.590	-.1674	-.1624	-.1615
.770		-.1882	-.1814
.950	-.2130	-.2050	-.1991

BETA (4) = 5.000 ALPHA (2) = 2.070 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7642	-.5887	-.5501
.200	-.1318	-.0783	-.0644
.410	-.1328	-.1150	-.1209
.590	-.1278	-.1219	-.1259
.770		-.1546	-.1455
.950	-.1824	-.1724	-.1625

BETA (4) = 5.000 ALPHA (3) = 4.130 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6595	-.5296	-.4929
.200	-.0754	-.0317	-.0178
.410	-.0853	-.0674	-.0793
.590	-.0882	-.0813	-.0853
.770		-.1200	-.1096
.950	-.1517	-.1408	-.1259

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 78

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (4) = 5.000 ALPHA (4) = 6.200 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5367	-.4752	-.4275
.200	-.0158	.0128	.0307
.410	-.0347	-.0208	-.0337
.590	-.0486	-.0446	-.0456
.770		-.0843	-.0747
.950	-.1160	-.1031	-.0873

BETA (4) = 5.000 ALPHA (5) = 8.260 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3727	-.4261	-.3331
.200	.0405	.0592	.0689
.410	.0207	.0246	.0078
.590	-.0049	-.0020	-.0069
.770		-.0425	-.0363
.950	-.0761	-.0613	-.0484

BETA (4) = 5.000 ALPHA (6) = 10.370 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1626	-.3718	-.2221
.200	.0971	.1060	.1318
.410	.0723	.0723	.0505
.590	.0455	.0406	.0376
.770		-.0059	.0051
.950	-.0347	-.0178	-.0089

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 79

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (5) = 10.050 ALPHA (1) = .000 Q(PSF) = 42.887 P0/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.9251	-.8487	-.7357
.200	-.2528	-.2032	-.1556
.410	-.2280	-.2032	-.2052
.590	-.2360	-.2102	-.1983
.770		-.2340	-.2108
.950	-.2846	-.2508	-.2310

BETA (5) = 10.050 ALPHA (2) = 2.080 Q(PSF) = 42.887 P0/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7545	-.7981	-.6565
.200	-.2010	-.1643	-.1148
.410	-.1822	-.1594	-.1693
.590	-.1960	-.1733	-.1634
.770		-.2020	-.1802
.950	-.2475	-.2139	-.1970

BETA (5) = 10.050 ALPHA (3) = 4.130 Q(PSF) = 42.887 P0/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5510	-.7422	-.5649
.200	-.1466	-.1248	-.0743
.410	-.1367	-.1199	-.1328
.590	-.1566	-.1387	-.1268
.770		-.1714	-.1477
.950	-.2160	-.1833	-.1605

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 80

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN08)

BETA (5) = 10.050 ALPHA (4) = 6.200 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2944	-.6938	-.4708
.200	-.0941	-.0803	-.0456
.410	-.0922	-.0773	-.0961
.590	-.1150	-.0991	-.0961
.770	-.1387	-.1151	
.950	-.1744	-.1467	-.1259

BETA (5) = 10.050 ALPHA (5) = 8.280 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1494	-.6115	-.3631
.200	-.0356	-.0366	-.0168
.410	-.0475	-.0346	-.0584
.590	-.0732	-.0623	-.0574
.770	-.1029	-.0812	
.950	-.1276	-.1108	-.0900

BETA (5) = 10.050 ALPHA (6) = 10.320 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0266	-.5273	-.2898
.200	.0177	.0108	.0098
.410	.0009	.0059	-.0217
.590	-.0326	-.0227	-.0227
.770		-.0663	-.0431
.950	-.0831	-.0722	-.0554

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 81

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN09) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 20.000 THETAN = 2.900
PHI-M = 20.000 THETAM = 3.100

BETA (1) = -10.050 ALPHA (1) = .000 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4038 -.5189 -.2748
.200 -.1498 -.1339 -.0982
.410 -.2183 -.1826 -.1796
.590 -.2133 -.1905 -.1855
.770 -.2173 -.2199
.950 -.2431 -.2530 -.2530

BETA (1) = -10.050 ALPHA (2) = 2.060 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3492 -.4713 -.1359
.200 -.0982 -.0734 -.0327
.410 -.1667 -.1270 -.1220
.590 -.1686 -.1409 -.1299
.770 -.1756 -.1749
.950 -.2083 -.2143 -.2133

BETA (1) = -10.060 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2998 -.4038 -.0217
.200 -.0445 -.0138 .0346
.410 -.1177 -.0722 -.0643
.590 -.1257 -.0930 -.0762
.770 -.1257 -.1318
.950 -.1732 -.1742 -.1732

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 82

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (1) = -10.060 ALPHA (4) = 6.200 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2566	-.3150	.0505
.200	.0088	.0505	.0980
.410	-.0673	-.0158	-.0069
.590	-.0812	-.0446	-.0257
.770		-.0842	-.0836
.950	-.1357	-.1298	-.1248

BETA (1) = -10.060 ALPHA (5) = 8.290 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2026	-.1749	.1254
.200	.0602	.1076	.1620
.410	-.0168	.0375	.0543
.590	-.0306	.0059	.0286
.770		-.0356	-.0318
.950	-.0939	-.0859	-.0790

BETA (1) = -10.060 ALPHA (6) = 10.400 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1333	-.0207	.1925
.200	.1145	.1688	.2262
.410	.0394	.0927	.1164
.590	.0167	.0631	.0799
.770		.0128	.0196
.950	-.0523	-.0375	-.0237

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 83

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (2) = -5.030 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5979	-.5346	-.5791
.200	-.1205	-.0869	-.0850
.410	-.1690	-.1561	-.1620
.590	-.1719	-.1640	-.1630
.770		-.1848	-.1854
.950	-.2134	-.2115	-.2085

BETA (2) = -5.030 ALPHA (2) = 2.070 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5050	-.4526	-.5010
.200	-.0672	-.0286	-.0217
.410	-.1186	-.1018	-.1097
.590	-.1235	-.1126	-.1126
.770		-.1423	-.1428
.950	-.1779	-.1749	-.1710

BETA (2) = -5.030 ALPHA (3) = 4.140 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4167	-.3741	-.4147
.200	-.0148	.0257	.0375
.410	-.0703	-.0495	-.0534
.590	-.0792	-.0683	-.0613
.770		-.0990	-.0992
.950	-.1425	-.1376	-.1296

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 84

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (2) = -5.030 ALPHA (4) = 6.210 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3291	-.2895	-.3202
.200	.0416	.0782	.1001
.410	-.0178	.0069	-.0020
.590	-.0307	-.0158	-.0099
.770		-.0545	-.0522
.950	-.1061	-.0952	-.0862

BETA (2) = -5.040 ALPHA (5) = 8.290 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2436	-.2040	-.2288
.200	.0960	.1326	.1584
.410	.0356	.0574	.0554
.590	.0168	.0326	.0415
.770		-.0089	-.0049
.950	-.0683	-.0525	-.0406

BETA (2) = -5.040 ALPHA (6) = 10.420 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1540	-.1175	-.1372
.200	.1540	.1876	.2134
.410	.0908	.1174	.1115
.590	.0671	.0839	.0918
.770		.0375	.0465
.950	-.0227	-.0069	.0078

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 85

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7830	-.5986	-.6746
.200	-.1361	-.0828	-.0749
.410	-.1548	-.1351	-.1489
.590	-.1578	-.1479	-.1479
.770	-.1716	-.1683	
.950	-.1992	-.1972	-.1913

BETA (3) = .000 ALPHA (2) = 2.070 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6949	-.5160	-.5802
.200	-.0820	-.0267	-.0207
.410	-.1067	-.0889	-.1008
.590	-.1117	-.1048	-.1008
.770		-.1334	-.1283
.950	-.1651	-.1601	-.1542

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6053	-.4319	-.4825
.200	-.0327	.0237	.0287
.410	-.0614	-.0456	-.0535
.590	-.0713	-.0634	-.0584
.770		-.0981	-.0881
.950	-.1357	-.1288	-.1179

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 86

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (3) = .000 ALPHA (4) = 6.220 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5056	-.3489	-.3757
.200	.0227	.0782	.0812
.410	-.0099	.0039	-.0059
.590	-.0238	-.0168	-.0119
.770		-.0545	-.0488
.950	-.1011	-.0902	-.0783

BETA (3) = .000 ALPHA (5) = 8.270 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3875	-.2777	-.2728
.200	.0770	.1265	.1324
.410	.0395	.0533	.0405
.590	.0207	.0266	.0316
.770		-.0118	-.0083
.950	-.0642	-.0514	-.0346

BETA (3) = .000 ALPHA (6) = 10.340 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2712	-.2286	-.1732
.200	.1316	.1682	.1850
.410	.0920	.0999	.0850
.590	.0712	.0742	.0732
.770		.0306	.0377
.950	-.0267	-.0069	.0088

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 87

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (4) = 5.020 ALPHA (1) = .030 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.9501	-.7190	-.7565
.200	-.2103	-.1254	-.1205
.410	-.2173	-.1698	-.1679
.590	-.1777	-.1659	-.1659
.770	-.1847	-.1763	
.950	-.2074	-.1955	-.1916

BETA (4) = 5.020 ALPHA (2) = 2.070 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8450	-.6355	-.6652
.200	-.1552	-.0850	-.0771
.410	-.1690	-.1265	-.1275
.590	-.1364	-.1255	-.1265
.770		-.1512	-.1395
.950	-.1809	-.1631	-.1581

BETA (4) = 5.020 ALPHA (3) = 4.100 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7320	-.5589	-.5520
.200	-.1048	-.1177	-.0395
.410	-.1157	-.0435	-.0870
.590	-.0940	-.0860	-.0860
.770		-.1157	-.1777
.950	-.1503	-.1325	-.1226

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 88

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (4) = 5.020 ALPHA (4) = 6.210 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6068	-.4947	-.4392
.200	-.0486	-.0020	.0079
.410	-.0624	-.0327	-.0456
.590	-.0515	-.0466	-.0446
.770	-.0793	-.0623	
.950	-.1190	-.0961	-.0843

BETA (4) = 5.020 ALPHA (5) = 8.270 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4653	-.4356	-.3376
.200	.0108	.0375	.0643
.410	-.0109	.0108	-.0039
.590	-.0119	-.0059	-.0029
.770		-.0445	-.0240
.950	-.0841	-.0604	-.0416

BETA (4) = 5.020 ALPHA (6) = 10.350 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3134	-.3529	-.2165
.200	.0642	.0810	.1077
.410	.0503	.0583	.0355
.590	.0325	.0365	.0375
.770		-.0020	.0141
.950	-.0455	-.0158	.0000

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 89

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0467	-.8415	-.8128
.200	-.2914	-.2230	-.1962
.410	-.2706	-.2210	-.2171
.590	-.2557	-.2190	-.2012
.770		-.2359	-.2040
.950	-.3033	-.2547	-.2369

BETA (5) = 10.080 ALPHA (2) = 2.070 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.9184	-.7373	-.6868
.200	-.2405	-.1890	-.1712
.410	-.2217	-.1821	-.1811
.590	-.2147	-.1831	-.1662
.770		-.2019	-.1733
.950	-.2771	-.2187	-.2029

BETA (5) = 10.080 ALPHA (3) = 4.130 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7968	-.6571	-.5302
.200	-.1883	-.1566	-.1358
.410	-.1764	-.1377	-.1447
.590	-.1754	-.1467	-.1268
.770		-.1685	-.1410
.950	-.2458	-.1863	-.1675

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 90

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN09)

BETA (5) = 10.080 ALPHA (4) = 6.200 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6607	-.6062	-.4514
.200	-.1379	-.1220	-.0932
.410	-.1329	-.0952	-.1091
.590	-.1379	-.1101	-.0952
.770	-.1359	-.1085	
.950	-.2063	-.1508	-.1280

BETA (5) = 10.080 ALPHA (5) = 8.280 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4675	-.5832	-.3924
.200	-.0810	-.0761	-.0484
.410	-.0929	-.0514	-.0721
.590	-.0978	-.0771	-.0563
.770	-.1018	-.0733	
.950	-.1700	-.1107	-.0889

BETA (5) = 10.080 ALPHA (6) = 10.440 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1650	-.5643	-.3390
.200	-.0188	-.0276	-.0158
.410	-.0464	-.0079	-.0346
.590	-.0533	-.0336	-.0178
.770		-.0632	-.0329
.950	-.1304	-.0672	-.0454

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 91

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN10) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 30.800 THETAN = 5.000
PHI-M = 32.200 THETAM = 5.000

BETA (1) = -10.060 ALPHA (1) = .010 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.5699 -.5868 .0089
.200 -.1062 -.1479 -.0605
.410 -.1886 -.1896 -.1489
.590 -.1906 -.1688 -.1727
.770 -.1976 -.1998
.950 -.4815 -.2333 -.2293

BETA (1) = -10.060 ALPHA (2) = 2.080 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4776 -.4518 .0337
.200 -.0636 -.0298 .0039
.410 -.1350 -.0933 -.0923
.590 -.1430 -.1191 -.1201
.770 -.1529 -.1525
.950 -.1976 -.1976 -.1896

BETA (1) = -10.070 ALPHA (3) = 4.130 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3730 -.3202 .0377
.200 -.0010 .0288 .0695
.410 -.0825 -.0388 -.0338
.590 -.0965 -.0696 -.0686
.770 -.1084 -.1065
.950 -.1661 -.1621 -.1531

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 92

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (1) = -10.070 ALPHA (4) = 6.210 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2501	-.1776	.0416
.200	.0515	.0912	.1280
.410	-.0288	.0168	.0257
.590	-.0476	-.0198	-.0119
.770		-.0645	-.0579
.950	-.1310	-.1231	-.1102

BETA (1) = -10.070 ALPHA (5) = 8.290 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1001	-.0406	.0634
.200	.1060	.1496	.1903
.410	.0277	.0723	.0812
.590	.0059	.0297	.0396
.770		-.0148	-.0094
.950	-.0912	-.0812	-.0634

BETA (1) = -10.070 ALPHA (6) = 10.350 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0684	.1061	.1160
.200	.1626	.2044	.2502
.410	.0842	.1318	.1388
.590	.0575	.0832	.0922
.770		.0346	.0400
.950	-.0496	-.0397	-.0178

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 93

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (2) = -5.040 ALPHA (1) = .000 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5086	-.5593	-.6686
.200	-.0487	-.0338	-.0626
.410	-.1410	-.1271	-.1440
.590	-.1589	-.1520	-.1599
.770		-.1778	-.1830
.950	-.2175	-.2136	-.1997

BETA (2) = -5.040 ALPHA (2) = 2.070 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4423	-.4612	-.5723
.200	-.0020	.0168	-.0039
.410	-.0912	-.0744	-.0892
.590	-.1101	-.1051	-.1111
.770		-.1369	-.1388
.950	-.1845	-.1795	-.1616

BETA (2) = -5.050 ALPHA (3) = 4.110 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3806	-.3687	-.4679
.200	.0426	.0634	.0574
.410	-.0436	-.0218	-.0357
.590	-.0644	-.0585	-.0624
.770		-.0942	-.0960
.950	-.1497	-.1427	-.1269

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 94

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (2) = -5.050 ALPHA (4) = 6.180 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	- .3160	-.2715	-.3527
.200	.0891	.1069	.1178
.410	.0079	.0267	.0158
.590	-.0168	-.0089	-.0148
.770		-.0475	-.0488
.950	-.1139	-.1060	-.0842

BETA (2) = -5.050 ALPHA (5) = 8.250 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	- .2446	-.1869	-.2386
.200	.1361	.1590	.1759
.410	.0566	.0785	.0705
.590	.0278	.0387	.0387
.770		-.0020	.0006
.950	-.0785	-.0636	-.0397

BETA (2) = -5.050 ALPHA (6) = 10.350 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1398	-.1061	-.1309
.200	.1835	.2093	.2282
.410	.1100	.1328	.1249
.590	.0783	.0912	.0902
.770		.0446	.0524
.950	-.0337	-.0208	.0088

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 95

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (3) = -.020 ALPHA (1) = .000 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6835	-.5726	-.7340
.200	-.0802	-.0614	-.0634
.410	-.1406	-.1169	-.1347
.590	-.1565	-.1446	-.1506
.770	-.1723	-.1713	
.950	-.2199	-.2040	-.1793

BETA (3) = -.020 ALPHA (2) = 2.090 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6179	-.4949	-.6407
.200	-.0347	-.0149	-.0129
.410	-.0942	-.0734	-.0863
.590	-.1130	-.1041	-.1041
.770	-.1368	-.1287	
.950	-.1904	-.1735	-.1458

BETA (3) = -.020 ALPHA (3) = 4.100 Q(PSF) = 42.810 P0/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5477	-.4157	-.5397
.200	-.0059	-.0327	-.0327
.410	-.0536	-.0337	-.0407
.590	-.0704	-.0635	-.0655
.770	-.0992	-.0916	
.950	-.1607	-.1438	-.1131

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 96

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (3) = -.020 ALPHA (4) = 6.200 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4769	-.3410	-.4283
.200	.0525	.0842	.0713
.410	-.0020	.0118	.0088
.590	-.0258	-.0178	-.0188
.770	-.0555	-.0510	
.950	-.1279	-.1100	-.0803

BETA (3) = -.020 ALPHA (5) = 8.240 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3819	-.2805	-.3073
.200	.0964	.1243	.1233
.410	.0457	.0586	.0526
.590	.0188	.0268	.0208
.770		-.0159	-.0072
.950	-.0915	-.0776	-.0418

BETA (3) = -.020 ALPHA (6) = 10.360 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2531	-.2322	-.1925
.200	.1458	.1617	.1686
.410	.0962	.1071	.0962
.590	.0694	.0714	.0704
.770		.0287	.0389
.950	-.0506	-.0377	-.0049

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DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 97

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (4) = 5.000 ALPHA (1) = -.010 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8192	-.6595	-.7141
.200	-.1894	-.1289	-.1567
.410	-.2420	-.1656	-.1517
.590	-.3273	-.1745	-.1716
.770	-.1964	-.1827	
.950	-.2906	-.2053	-.1795

BETA (4) = 5.000 ALPHA (2) = 2.030 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7570	-.5836	-.5846
.200	-.1447	-.0872	-.1268
.410	-.1873	-.1209	-.1090
.590	-.2804	-.1377	-.1318
.770		-.1605	-.1454
.950	-.2745	-.1724	-.1447

BETA (4) = 5.000 ALPHA (3) = 4.110 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6852	-.5154	-.4806
.200	-.0973	-.0536	-.1003
.410	-.1340	-.0804	-.0715
.590	-.2314	-.0983	-.0913
.770		-.1231	-.1041
.950	-.2502	-.1440	-.1112

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 98

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (4) = 5.000 ALPHA (4) = 6.190 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5876	-.4516	-.3881
.200	-.0506	-.0188	-.0546
.410	-.0774	-.0407	-.0337
.590	-.1786	-.0575	-.0496
.770		-.0863	-.0669
.950	-.2213	-.1082	-.0774

BETA (4) = 5.000 ALPHA (5) = 8.250 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4624	-.4068	-.3046
.200	.0019	.0168	.0128
.410	-.0307	.0009	.0019
.590	-.1071	-.0178	-.0089
.770		-.0516	-.0252
.950	-.1964	-.0774	-.0466

BETA (4) = 5.000 ALPHA (6) = 10.310 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2923	-.3689	-.2347
.200	.0546	.0566	.0705
.410	.0158	.0417	.0407
.590	-.0407	.0258	.0317
.770		-.0139	.0096
.950	-.1641	-.0437	-.0119

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 99

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (5) = 10.050 ALPHA (1) = .000 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8596	-.7632	-.6817
.200	-.3309	-.2504	-.3339
.410	-.6300	-.2176	-.1938
.590	-.4303	-.2097	-.1938
.770		-.3170	-.2056
.950	-.3428	-.3269	-.2246

BETA (5) = 10.050 ALPHA (2) = 2.040 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8512	-.7111	-.6108
.200	-.2761	-.2205	-.2680
.410	-.5860	-.1837	-.1658
.590	-.4012	-.1718	-.1599
.770		-.2930	-.1717
.950	-.3307	-.3059	-.1887

BETA (5) = 10.050 ALPHA (3) = 4.120 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8145	-.6645	-.5443
.200	-.2195	-.1917	-.2264
.410	-.5453	-.1470	-.1311
.590	-.3804	-.1351	-.1271
.770		-.2602	-.1413
.950	-.3178	-.2801	-.1529

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 100

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN10)

BETA (5) = 10.050 ALPHA (4) = 6.250 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7111	-.6196	-.4833
.200	-.1561	-.1541	-.1601
.410	-.4933	-.1074	-.0935
.590	-.3520	-.0935	-.0905
.770	-.2267	-.1008	
.950	-.2953	-.2576	-.1124

BETA (5) = 10.050 ALPHA (5) = 8.240 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5569	-.5877	-.4348
.200	-.1022	-.1161	-.0993
.410	-.4507	-.0685	-.0605
.590	-.3316	-.0486	-.0576
.770		-.1846	-.0579
.950	-.2780	-.2273	-.0715

BETA (5) = 10.050 ALPHA (6) = 10.330 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2949	-.5759	-.3862
.200	-.0437	-.0685	-.0476
.410	-.3862	-.0268	-.0218
.590	-.3177	-.0109	-.0169
.770		-.1191	-.0184
.950	-.2522	-.1847	-.0308

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 101

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 30.800 THETAN = 5.000
PHI-M = 40.000 THETAM = 6.200

BETA (1) = -10.080 ALPHA (1) = .020 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.5630 -.5808 .0078
.200 -.1039 -.0900 -.0623
.410 -.1811 -.1444 -.1504
.590 -.1880 -.1692 -.1702
.770 -.1969 -.1991
.950 -.2315 -.2335 -.2286

BETA (1) = -10.080 ALPHA (2) = 2.080 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4747 -.4540 .0365
.200 -.0524 -.0277 .0039
.410 -.1286 -.0910 -.0949
.590 -.1444 -.1206 -.1206
.770 -.1553 -.1519
.950 -.1988 -.1978 -.1919

BETA (1) = -10.080 ALPHA (3) = 4.110 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3733 -.3218 .0375
.200 -.0039 .0286 .0633
.410 -.0812 -.0416 -.0376
.590 -.0950 -.0732 -.0713
.770 -.1099 -.1071
.950 -.1673 -.1634 -.1505

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (1) = -10.080 ALPHA (4) = 6.200 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2486	-.1733	.0495
.200	.0495	.0921	.1287
.410	-.0218	.0197	.0217
.590	-.0446	-.0188	-.0148
.770		-.0624	-.0566
.950	-.1327	-.1248	-.1109

BETA (1) = -10.080 ALPHA (5) = 8.270 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1028	-.0405	.0671
.200	.1067	.1482	.1868
.410	.0286	.0711	.0800
.590	.0039	.0306	.0355
.770		-.0158	-.0094
.950	-.0929	-.0830	-.0652

BETA (1) = -10.080 ALPHA (6) = 10.330 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0682	.1097	.1176
.200	.1572	.2068	.2475
.410	.0820	.1295	.1364
.590	.0533	.0830	.0919
.770		.0336	.0410
.950	-.0504	-.0405	-.0178

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL~751)

PAGE 103

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (2) = -5.050 ALPHA (1) = .000 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5054	-.5616	-.6712
.200	-.0483	-.0345	-.0651
.410	-.1362	-.1234	-.1431
.590	-.1559	-.1510	-.1609
.770		-.1806	-.1830
.950	-.2191	-.2142	-.1984

BETA (2) = -5.060 ALPHA (2) = 2.060 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4406	-.4613	-.5670
.200	-.0020	.0147	-.0059
.410	-.0879	-.0760	-.0909
.590	-.1106	-.1047	-.1106
.770		-.1353	-.1405
.950	-.1857	-.1788	-.1630

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3791	-.3662	-.4672
.200	.0455	.0633	.0583
.410	-.0366	-.0198	-.0376
.590	-.0663	-.0584	-.0613
.770		-.0940	-.0925
.950	-.1494	-.1435	-.1237

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 104

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (2) = -5.060 ALPHA (4) = 6.190 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3134	-.2717	-.3540
.200	.0892	.1090	.1150
.410	.0098	.0267	.0148
.590	-.0198	-.0089	-.0119
.770	-.0496	-.0466	
.950	-.1180	-.1051	-.0843

BETA (2) = -5.060 ALPHA (5) = 8.260 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2450	-.1895	-.2450
.200	.1348	.1557	.1745
.410	.0594	.0793	.0684
.590	.0297	.0396	.0376
.770		-.0020	-.0004
.950	-.0793	-.0664	-.0426

BETA (2) = -5.060 ALPHA (6) = 10.340 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1470	-.1026	-.1322
.200	.1835	.2073	.2261
.410	.1124	.1302	.1243
.590	.0799	.0878	.0878
.770		.0453	.0510
.950	-.0375	-.0207	.0078

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 105

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6811	-.5768	-.7387
.200	-.0784	-.0386	-.0675
.410	-.1360	-.1152	-.1350
.590	-.1549	-.1459	-.1509
.770	-.1727	-.1694	
.950	-.2174	-.2045	-.1817

BETA (3) = -.010 ALPHA (2) = 2.060 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6121	-.4933	-.6458
.200	-.0366	-.0178	-.0178
.410	-.0931	-.0743	-.0862
.590	-.1109	-.1040	-.1050
.770		-.1377	-.1274
.950	-.1921	-.1743	-.1476

BETA (3) = -.020 ALPHA (3) = 4.140 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5446	-.4158	-.5426
.200	-.0049	-.0336	-.0306
.410	-.0475	-.0307	-.0386
.590	-.0703	-.0633	-.0633
.770		-.0970	-.0880
.950	-.1604	-.1426	-.1119

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 106

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (3) = -.020 ALPHA (4) = 6.220 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4741	-.3353	-.4345
.200	.0505	.0852	.0733
.410	.0000	.0138	.0079
.590	-.0228	-.0208	-.0188
.770		-.0555	-.0488
.950	-.1279	-.1101	-.0783

BETA (3) = -.010 ALPHA (5) = 8.260 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3796	-.2748	-.3114
.200	.0948	.1235	.1235
.410	.0494	.0583	.0503
.590	.0237	.0256	.0227
.770		-.0158	-.0071
.950	-.0909	-.0761	-.0415

BETA (3) = -.010 ALPHA (6) = 10.340 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2444	-.2256	-.1939
.200	.1454	.1642	.1691
.410	.0999	.1048	.0939
.590	.0712	.0712	.0682
.770		.0286	.0399
.950	-.0534	-.0386	-.0039

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 107

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (4) = 5.020 ALPHA (1) = .000 Q(PSF) = 42.898 P0/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8116	-.6534	-.7177
.200	-.1888	-.1275	-.1542
.410	-.2333	-.1621	-.1493
.590	-.3262	-.1740	-.1710
.770		-.1957	-.1832
.950	-.2896	-.2056	-.1779

BETA (4) = 5.020 ALPHA (2) = 2.090 Q(PSF) = 42.898 P0/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7531	-.5859	-.5898
.200	-.1425	-.0851	-.1197
.410	-.1801	-.1217	-.1108
.590	-.2771	-.1356	-.1316
.770		-.1583	-.1419
.950	-.2721	-.1722	-.1425

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(PSF) = 42.898 P0/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6889	-.5132	-.4795
.200	-.0983	-.0516	-.0943
.410	-.1231	-.0814	-.0724
.590	-.2313	-.0992	-.0893
.770		-.1231	-.1018
.950	-.2482	-.1399	-.1102

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 108

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (4) = 5.020 ALPHA (4) = 6.200 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5914	-.4537	-.3913
.200	-.0495	-.0208	-.0555
.410	-.0743	-.0396	-.0356
.590	-.1714	-.0584	-.0505
.770		-.0862	-.0656
.950	-.2229	-.1099	-.0792

BETA (4) = 5.020 ALPHA (5) = 8.250 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4670	-.4067	-.3037
.200	.0009	.0158	.0108
.410	-.0247	.0000	.0029
.590	-.1078	-.0178	-.0099
.770		-.0524	-.0274
.950	-.1989	-.0742	-.0455

BETA (4) = 5.020 ALPHA (6) = 10.330 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2969	-.3662	-.2346
.200	.0514	.0554	.0692
.410	.0237	.0415	.0415
.590	-.0386	.0247	.0326
.770		-.0138	.0152
.950	-.1663	-.0425	-.0119

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 109

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (5) = 10.120 ALPHA (1) = .000 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8871	-.7674	-.6784
.200	-.3332	-.2561	-.3412
.410	-.6200	-.2195	-.1968
.590	-.4262	-.2086	-.1938
.770		-.3184	-.2024
.950	-.3412	-.3273	-.2225

BETA (5) = 10.120 ALPHA (2) = 2.050 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8684	-.7137	-.6047
.200	-.2756	-.2220	-.2875
.410	-.5829	-.1844	-.1675
.590	-.4015	-.1715	-.1596
.770		-.2944	-.1725
.950	-.3321	-.3103	-.1873

BETA (5) = 10.120 ALPHA (3) = 4.110 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8256	-.6672	-.5484
.200	-.2198	-.1950	-.2247
.410	-.5405	-.1485	-.1336
.590	-.3791	-.1336	-.1287
.770		-.2663	-.1374
.950	-.3187	-.2861	-.1534

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 110

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN11)

BETA (5) = 10.120 ALPHA (4) = 6.180 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7165	-.6293	-.4846
.200	-.1575	-.1595	-.1605
.410	-.4965	-.1070	-.0981
.590	-.3528	-.0931	-.0911
.770		-.2269	-.1005
.950	-.2983	-.2566	-.1139

BETA (5) = 10.130 ALPHA (5) = 8.260 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5480	-.6044	-.4342
.200	-.1019	-.1137	-.0979
.410	-.4392	-.0672	-.0603
.590	-.3304	-.0475	-.0554
.770		-.1820	-.0565
.950	-.2769	-.2314	-.0692

BETA (5) = 10.130 ALPHA (6) = 10.330 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2876	-.5801	-.3887
.200	-.0436	-.0674	-.0515
.410	-.3838	-.0268	-.0208
.590	-.3153	-.0089	-.0168
.770		-.1200	-.0184
.950	-.2548	-.1854	-.0327

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 111

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPOBRK = 25.000
PHI-N = 50.000 THETAN = 9.800
PHI-M = 48.300 THETAM = 6.200

BETA (1) = -10.090 ALPHA (1) = .010 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2410 -.1101 .0902
.200 -.0377 -.0813 .0257
.410 -.1022 -.0883 -.0932
.590 -.1319 -.1210 -.1349
.770 -.1637 -.1355
.950 -.2262 -.2202 -.1825

BETA (1) = -10.090 ALPHA (2) = 2.070 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0772 -.0247 .0950
.200 .0177 .0514 .0871
.410 -.0435 -.0247 -.0327
.590 -.0772 -.0723 -.0831
.770 -.1198 -.1184
.950 -.1891 -.1802 -.1445

BETA (1) = -10.100 ALPHA (3) = 4.130 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0594 .0841 .0940
.200 .0732 .1039 .1465
.410 .0078 .0306 .0227
.590 -.0317 -.0188 -.0287
.770 -.0743 -.0723
.950 -.1505 -.1406 -.1099

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 112

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (1) = -10.090 ALPHA (4) = 6.230 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1942	.1773	.1555
.200	.1307	.1604	.1991
.410	.0663	.0861	.0802
.590	.0257	.0306	.0217
.770		-.0287	-.0251
.950	-.1080	-.1000	-.0654

BETA (1) = -10.100 ALPHA (5) = 8.300 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2986	.2767	.2240
.200	.1892	.1426	.2548
.410	.1238	.1505	.1366
.590	.0752	.0831	.0752
.770		.0197	.0444
.950	-.0654	-.0545	-.0218

BETA (1) = -10.100 ALPHA (6) = 10.390 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3793	.3713	.3037
.200	.2460	.2709	.3087
.410	.1793	.1923	.1863
.590	.1288	.1357	.1278
.770		.0683	.0714
.950	-.0228	-.0119	.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 113

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (2) = -5.040 ALPHA (1) = .010 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4639	-.4282	-.5353
.200	-.0109	-.0029	-.0178
.410	-.0793	-.0793	-.1041
.590	-.1110	-.1150	-.1298
.770		-.1487	-.1432
.950	-.2121	-.2052	-.1675

BETA (2) = -5.040 ALPHA (2) = 2.060 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3969	-.3395	-.4424
.200	.0316	.0445	.0464
.410	-.0356	-.0297	-.0524
.590	-.0703	-.0683	-.0831
.770		-.1079	-.1037
.950	-.1772	-.1673	-.1267

BETA (2) = -5.040 ALPHA (3) = 4.120 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3271	-.2637	-.3400
.200	.0802	.0941	.1060
.410	.0138	.0188	.0019
.590	-.0248	-.0228	-.0337
.770		-.0654	-.0645
.950	-.1368	-.1269	-.0872

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 114

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (2) = -5.040 ALPHA (4) = 6.180 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2336	-.1960	-.2356
.200	.1217	.1385	.1583
.410	.0613	.0663	.0564
.590	.0187	.0197	.0138
.770	-.0247	-.0206	
.950	-.0980	-.0851	-.0445

BETA (2) = -5.040 ALPHA (5) = 8.270 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1030	-.1188	-.1337
.200	.1683	.1822	.2011
.410	.1099	.1118	.1079
.590	.0643	.0653	.0613
.770		.0178	.0253
.950	-.0574	-.0436	-.0020

BETA (2) = -5.040 ALPHA (6) = 10.320 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0326	-.0534	-.0455
.200	.2139	.2238	.2477
.410	.1563	.1603	.1563
.590	.1078	.1148	.1098
.770		.0613	.0680
.950	-.0158	-.0059	.0375

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 115

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6474	-.5256	-.6712
.200	-.0574	-.0326	-.0346
.410	-.1138	-.1010	-.1188
.590	-.1455	-.1316	-.1336
.770	-.1623	-.1476	
.950	-.2425	-.2257	-.1920

BETA (3) = -.010 ALPHA (2) = 2.070 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5836	-.4471	-.5866
.200	-.0227	.0059	.0098
.410	-.0761	-.0643	-.0712
.590	-.1048	-.0920	-.0880
.770	-.1236	-.1070	
.950	-.2146	-.1919	-.1622

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5105	-.3806	-.5055
.200	.0138	.0485	.0525
.410	-.0337	-.0198	-.0218
.590	-.0674	-.0495	-.0476
.770	-.0852	-.0645	
.950	-.1863	-.1566	-.1288

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 116

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (3) = -.010 ALPHA (4) = 6.190 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4208	-.3151	-.4179
.200	.0513	.0819	.0908
.410	.0078	.0217	.0226
.590	-.0276	-.0079	-.0059
.770	-.0464	-.0217	
.950	-.1521	-.1195	-.0899

BETA (3) = -.010 ALPHA (5) = 8.270 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3010	-.2554	-.3307
.200	.0890	.1138	.1306
.410	.0494	.0593	.0613
.590	.0118	.0326	.0356
.770	-.0069	.0264	
.950	-.1247	-.0841	-.0594

BETA (3) = -.010 ALPHA (6) = 10.310 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1672	-.2364	-.2058
.200	.1325	.1473	.1671
.410	.0890	.1038	.0998
.590	.0514	.0721	.0840
.770	-.0316	.0702	
.950	-.0959	-.0465	-.0217

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 117

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (4) = 5.030 ALPHA (1) = .000 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7974	-.6635	-.8014
.200	-.1775	-.1170	-.1111
.410	-.2817	-.1597	-.1468
.590	-.5108	-.1696	-.1577
.770		-.2073	-.1726
.950	-.4423	-.2727	-.2400

BETA (4) = 5.030 ALPHA (2) = 2.040 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7530	-.6032	-.7034
.200	-.1399	-.0823	-.0744
.410	-.2619	-.1250	-.1121
.590	-.5000	-.1329	-.1210
.770		-.1706	-.1332
.950	-.4256	-.2361	-.2083

BETA (4) = 5.030 ALPHA (3) = 4.090 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7140	-.5554	-.5950
.200	-.1061	-.0496	-.0416
.410	-.2549	-.0902	-.0783
.590	-.4780	-.0952	-.0783
.770		-.1319	-.0871
.950	-.4056	-.2033	-.1676

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 118

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (4) = 5.030 ALPHA (4) = 6.230 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6263	-.5084	-.5074
.200	-.0674	-.0238	-.0059
.410	-.2596	-.0555	-.0406
.590	-.4440	-.0604	-.0327
.770		-.0912	-.0476
.950	-.3855	-.1685	-.1258

BETA (4) = 5.020 ALPHA (5) = 8.330 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5069	-.4602	-.4015
.200	-.0308	.0000	.0119
.410	-.2624	-.0169	.0029
.590	-.4155	-.0159	.0089
.770		-.0487	-.0128
.950	-.3628	-.1332	-.0825

BETA (4) = 5.020 ALPHA (6) = 10.320 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3560	-.4203	-.3244
.200	.0049	.0256	.0454
.410	-.2739	.0197	.0425
.590	-.3877	.0237	.0474
.770		-.0069	.0208
.950	-.3343	-.0989	-.0395

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 119

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8873	-.8279	-.9140
.200	-.3406	-.2278	-.2307
.410	-.9477	-.2476	-.2188
.590	-.7487	-.2763	-.1971
.770		-.4852	-.2139
.950	-.4308	-.5734	-.2802

BETA (5) = 10.060 ALPHA (2) = 2.060 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8705	-.7921	-.8397
.200	-.3103	-.2082	-.2102
.410	-.9240	-.2141	-.1844
.590	-.7455	-.2439	-.1556
.770		-.4967	-.1748
.950	-.4372	-.5859	-.2548

BETA (5) = 10.060 ALPHA (3) = 4.110 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8716	-.7537	-.7666
.200	-.2793	-.1971	-.1961
.410	-.8686	-.1802	-.1466
.590	-.7369	-.2179	-.1159
.770		-.5140	-.1398
.950	-.4407	-.5774	-.2228

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 120

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN12)

BETA (5) = 10.060 ALPHA (4) = 6.180 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8448	-.7073	-.7053
.200	-.2483	-.1830	-.1682
.410	-.8310	-.1434	-.1108
.590	-.7311	-.1879	-.0801
.770		-.5451	-.1037
.950	-.4244	-.5767	-.1840

BETA (5) = 10.060 ALPHA (5) = 8.260 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7803	-.6744	-.6359
.200	-.2166	-.1582	-.1513
.410	-.7921	-.1008	-.0692
.590	-.7160	-.1632	-.0445
.770		-.5696	-.0655
.950	-.4104	-.5716	-.1483

BETA (5) = 10.060 ALPHA (6) = 10.330 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6673	-.6455	-.5731
.200	-.1973	-.1408	-.1110
.410	-.7784	-.0595	-.0287
.590	-.7030	-.1418	-.0020
.770		-.6078	-.0274
.950	-.3877	-.5543	-.1170

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 121

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN13) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 20.000
PHI-M = 70.000 THETAM = 11.200

BETA (1) = -10.100 ALPHA (1) = .010 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0684 -.0228 .1139
.200 -.0059 .0207 .0564
.410 -.0882 -.0654 -.0763
.590 -.1100 -.1080 -.1239
.770 -.1497 -.1568
.950 -.2012 -.2151 -.1963

BETA (1) = -10.100 ALPHA (2) = 2.090 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0634 .0376 .1169
.200 .0495 .0743 .1129
.410 -.0337 -.0109 -.0188
.590 -.0624 -.0585 -.0753
.770 -.1050 -.1095
.950 -.1665 -.1804 -.1615

BETA (1) = -10.100 ALPHA (3) = 4.120 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1664 .1089 .1139
.200 .1020 .1268 .1654
.410 .0188 .0396 .0346
.590 -.0168 -.0079 -.0238
.770 -.0604 -.0623
.950 -.1348 -.1437 -.1268

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 122

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (1) = -10.100 ALPHA (4) = 6.180 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2299	.1772	.1405
.200	.1574	.1812	.2160
.410	.0752	.0950	.0890
.590	.0326	.0395	.0267
.770		-.0148	-.0139
.950	-.0960	-.1099	-.0931

BETA (1) = -10.100 ALPHA (5) = 8.270 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3237	.2481	.1914
.200	.2043	.2302	.2640
.410	.1268	.1467	.1457
.590	.0832	.0892	.0812
.770		.0307	.0310
.950	-.0545	-.0694	-.0535

BETA (1) = -10.100 ALPHA (6) = 10.330 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3984	.3162	.2171
.200	.2587	.2746	.3082
.410	.1805	.1964	.1954
.590	.1351	.1400	.1321
.770		.0779	.0801
.950	-.0118	-.0276	-.0128

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 123

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4665	-.3991	-.4863
.200	-.0079	.0039	-.0010
.410	-.0792	-.0762	-.1010
.590	-.1000	-.1069	-.1307
.770	-.1426	-.1487	
.950	-.1882	-.1951	-.1812

BETA (2) = -5.060 ALPHA (2) = 2.050 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4053	-.3243	-.4152
.200	-.0345	.0553	.0592
.410	-.0366	-.0257	-.0464
.590	-.0603	-.0642	-.0830
.770	-.1038	-.1070	
.950	-.1592	-.1651	-.1522

BETA (2) = -5.060 ALPHA (3) = 4.090 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3227	-.2623	-.3276
.200	.0742	.0999	.1138
.410	.0098	.0168	.0049
.590	-.0188	-.0218	-.0326
.770	-.0643	-.0611	
.950	-.1326	-.1386	-.1257

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 124

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (2) = -5.060 ALPHA (4) = 6.180 Q(PSF) = 42.912 P0/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2071	-.1971	-.2318
.200	.1149	.1456	.1624
.410	.0564	.0633	.0584
.590	.0237	.0247	.0168
.770		-.0218	-.0173
.950	-.1020	-.1090	-.0951

BETA (2) = -5.060 ALPHA (5) = 8.280 Q(PSF) = 42.912 P0/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1029	-.1365	-.1444
.200	.1562	.1810	.2009
.410	.1028	.1127	.1117
.590	.0702	.0702	.0652
.770		.0167	.0309
.950	-.0633	-.0682	-.0544

BETA (2) = -5.060 ALPHA (6) = 10.300 Q(PSF) = 42.912 P0/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0118	-.0891	-.0673
.200	.1960	.2159	.2517
.410	.1514	.1573	.1573
.590	.1128	.1128	.1108
.770		.0593	.0736
.950	-.0277	-.0307	-.0178

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 125

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6762	-.5366	-.6663
.200	-.0762	-.0366	-.0406
.410	-.1247	-.1089	-.1237
.590	-.1584	-.1376	-.1425
.770	-.1722	-.1565	
.950	-.2940	-.2198	-.2039

BETA (3) = .000 ALPHA (2) = 2.040 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6227	-.4732	-.5890
.200	-.0505	.0029	.0069
.410	-.0911	-.0742	-.0722
.590	-.1406	-.1010	-.0990
.770	-.1366	-.1184	
.950	-.2980	-.1861	-.1732

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5578	-.4151	-.5112
.200	-.0218	.0346	.0505
.410	-.0555	-.0317	-.0238
.590	-.1298	-.0594	-.0584
.770	-.0981	-.0780	
.950	-.2923	-.1506	-.1426

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 126

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (3) = .000 ALPHA (4) = 6.200 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4747	-.3570	-.4322
.200	.0068	.0612	.0860
.410	-.0247	.0068	.0148
.590	-.1325	-.0188	-.0158
.770		-.0573	-.0363
.950	-.2650	-.1157	-.1107

BETA (3) = .000 ALPHA (5) = 8.270 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3808	-.3036	-.3590
.200	.0444	.0929	.1236
.410	-.0029	.0474	.0543
.590	-.1424	.0207	.0296
.770		-.0168	.0096
.950	-.2324	-.0781	-.0722

BETA (3) = .000 ALPHA (6) = 10.320 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2677	-.2706	-.2677
.200	.0792	.1199	.1655
.410	.0098	.0822	.0961
.590	-.1556	.0604	.0763
.770		.0257	.0523
.950	-.2082	-.0317	-.0287

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 127

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (4) = 5.050 ALPHA (1) = .010 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8795	-.7441	-.8093
.200	-.2381	-.1344	-.1205
.410	-.3972	-.1828	-.1640
.590	-.5099	-.1907	-.1779
.770		-.2401	-.1854
.950	-.4140	-.3073	-.2411

BETA (4) = 5.050 ALPHA (2) = 2.040 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8218	-.6862	-.7396
.200	-.2069	-.0960	-.0822
.410	-.4456	-.1475	-.1277
.590	-.4762	-.1535	-.1396
.770		-.2158	-.1487
.950	-.3931	-.2980	-.2099

BETA (4) = 5.050 ALPHA (3) = 4.140 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7823	-.6417	-.6566
.200	-.1782	-.0703	-.0445
.410	-.5110	-.1149	-.0980
.590	-.4545	-.1198	-.0960
.770		-.2040	-.1105
.950	-.3436	-.3119	-.1693

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 128

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (4) = 5.050 ALPHA (4) = 6.210 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7215	-.5827	-.6006
.200	-.1536	-.0535	-.0277
.410	-.5520	-.0793	-.0575
.590	-.4519	-.0862	-.0525
.770		-.1972	-.0701
.950	-.3112	-.3221	-.1318

BETA (4) = 5.050 ALPHA (5) = 8.320 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6471	-.5236	-.5325
.200	-.1245	-.0434	-.0217
.410	-.5582	-.0454	-.0148
.590	-.4446	-.0484	-.0049
.770		-.2065	-.0206
.950	-.3013	-.3379	-.0958

BETA (4) = 5.050 ALPHA (6) = 10.370 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5728	-.4659	-.4471
.200	-.0949	-.0326	-.0138
.410	-.5203	-.0099	.0306
.590	-.4402	-.0168	.0415
.770		-.2384	.0163
.950	-.2780	-.3472	-.0623

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 129

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (5) = 10.100 ALPHA (1) = .030 Q(PSF) = 42.917 P0/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8255	-.8917	-1.0311
.200	-.4577	-.2778	-.3035
.410	-.9500	-.2886	-.2274
.590	-.7098	-.3608	-.2234
.770		-.6119	-.2629
.950	-.4191	-.6070	-.3292

BETA (5) = 10.100 ALPHA (2) = 2.080 Q(PSF) = 42.917 P0/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7405	-.8108	-.9286
.200	-.4712	-.2831	-.2871
.410	-.9296	-.2584	-.1930
.590	-.7009	-.3613	-.1881
.770		-.6514	-.2397
.950	-.3920	-.6069	-.3108

BETA (5) = 10.100 ALPHA (3) = 4.110 Q(PSF) = 42.917 P0/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6791	-.7375	-.8266
.200	-.4801	-.3019	-.2811
.410	-.9236	-.2296	-.1544
.590	-.6979	-.3771	-.1544
.770		-.6929	-.2172
.950	-.3633	-.5999	-.2999

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 130

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN13)

BETA (5) = 10.100 ALPHA (4) = 6.230 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6266	-.6771	-.7484
.200	-.4910	-.1980	-.2673
.410	-.9246	.0613	-.1109
.590	-.7029	-.3979	-.1178
.770		-.7355	-.0656
.950	-.3306	-.5722	-.2910

BETA (5) = 10.100 ALPHA (5) = 8.280 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5852	-.6278	-.7130
.200	-.5159	-.3040	-.2614
.410	-.9447	-.1634	-.0733
.590	-.7071	-.4417	-.0842
.770		-.7734	-.1791
.950	-.2951	-.5407	-.2872

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5482	-.5759	-.6769
.200	-.5502	-.2998	-.2593
.410	-.9659	-.1286	-.0326
.590	-.7194	-.4988	-.0465
.770		-.7877	-.1688
.950	-.2612	-.4928	-.2939

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 131

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPOBRK = 25.000
PHI-N = 66.000 THETAN = 20.000
PHI-M = 88.000 THETAM = 20.000

BETA (1) = -10.090 ALPHA (1) = .010 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0593 -.0227 .1156
.200 -.0089 .0177 .0543
.410 -.0909 -.0672 -.0781
.590 -.1157 -.1087 -.1305
.770 -.1532 -.1597
.950 -.2076 -.2215 -.2007

BETA (1) = -10.090 ALPHA (2) = 2.110 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0564 .0406 .1090
.200 .0485 .0753 .1130
.410 -.0357 -.0139 -.0208
.590 -.0654 -.0615 -.0753
.770 -.1090 -.1140
.950 -.1745 -.1894 -.1695

BETA (1) = -10.090 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1755 .1051 .1150
.200 .1031 .1279 .1676
.410 .0158 .0396 .0337
.590 -.0449 -.0109 -.0258
.770 -.0635 -.0646
.950 -.1399 -.1537 -.1359

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (1) = -10.090 ALPHA (4) = 6.190 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2352	.1785	.1447
.200	.1557	.1785	.2143
.410	.0713	.0922	.0882
.590	.0317	.0376	.0277
.770		-.0178	-.0196
.950	-.1031	-.1160	-.1002

BETA (1) = -10.090 ALPHA (5) = 8.270 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3216	.2532	.1857
.200	.2066	.2304	.2641
.410	.1254	.1462	.1422
.590	.0849	.0908	.0809
.770		.0276	.0320
.950	-.0632	-.0770	-.0612

BETA (1) = -10.100 ALPHA (6) = 10.340 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4020	.3107	.2155
.200	.2562	.2760	.3107
.410	.1758	.1957	.1927
.590	.1323	.1353	.1323
.770		.0740	.0768
.950	-.0217	-.0356	-.0217

REPRODUCIBILITY OF THE
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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 133

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (2) = -5.080 ALPHA (1) = -.010 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4772	-.4028	-.4881
.200	-.0099	.0039	-.0039
.410	-.0823	-.0803	-.1032
.590	-.1051	-.1101	-.1329
.770	-.1478	-.1535	
.950	-.1974	-.2034	-.1885

BETA (2) = -5.080 ALPHA (2) = 2.070 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4155	-.3324	-.4195
.200	.0316	.0553	.0573
.410	-.0376	-.0287	-.0494
.590	-.0633	-.0663	-.0851
.770	-.1078	-.1104	
.950	-.1672	-.1741	-.1603

BETA (2) = -5.080 ALPHA (3) = 4.110 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3427	-.2635	-.3328
.200	.0732	.1010	.1129
.410	.0098	.0158	.0049
.590	-.0178	-.0218	-.0337
.770	-.0664	-.0634	
.950	-.1397	-.1476	-.1337

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 134

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (2) = -5.080 ALPHA (4) = 6.200 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2260	-.1982	-.2389
.200	.1139	.1427	.1645
.410	.0535	.0644	.0594
.590	.0237	.0217	.0158
.770		-.0267	-.0207
.950	-.1090	-.1169	-.1011

BETA (2) = -5.080 ALPHA (5) = 8.270 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1190	-.1398	-.1477
.200	.1556	.1794	.2033
.410	.1021	.1100	.1080
.590	.0673	.0673	.0634
.770		.0158	.0265
.950	-.0733	-.0763	-.0615

BETA (2) = -5.080 ALPHA (6) = 10.330 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0039	-.0911	-.0703
.200	.1952	.2171	.2519
.410	.1495	.1555	.1555
.590	.1119	.1099	.1099
.770		.0564	.0703
.950	-.0356	-.0386	-.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 135

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6767	-.5368	-.6678
.200	-.0764	-.0367	-.0407
.410	-.1250	-.1121	-.1220
.590	-.1597	-.1379	-.1429
.770	-.1728		-.1558
.950	-.2927	-.2203	-.2024

BETA (3) = .000 ALPHA (2) = 2.030 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6168	-.4725	-.5901
.200	-.0504	.0000	.0039
.410	-.0899	-.0731	-.0731
.590	-.1374	-.0998	-.0969
.770		-.1354	-.1182
.950	-.2975	-.1858	-.1740

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5588	-.4141	-.5132
.200	-.0228	.0356	.0485
.410	-.0565	-.0347	-.0247
.590	-.1288	-.0604	-.0574
.770		-.0961	-.0757
.950	-.2933	-.1506	-.1407

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 136

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (3) = .000 ALPHA (4) = 6.180 Q(P5F) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4765	-.3608	-.4380
.200	.0108	.0642	.0889
.410	-.0237	.0068	.0167
.590	-.1315	-.0207	-.0148
.770		-.0573	-.0374
.950	-.2630	-.1166	-.1107

BETA (3) = .000 ALPHA (5) = 8.240 Q(P5F) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3830	-.3019	-.3583
.200	.0425	.0940	.1236
.410	.0000	.0464	.0554
.590	-.1455	.0187	.0286
.770		-.0158	.0085
.950	-.2326	-.0772	-.0703

BETA (3) = .000 ALPHA (6) = 10.310 Q(P5F) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2672	-.2711	-.2632
.200	.0821	.1216	.1662
.410	.0078	.0821	.0949
.590	-.1514	.0593	.0781
.770		.0247	.0545
.950	-.2078	-.0326	-.0287

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 137

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (4) = 5.020 ALPHA (1) = .000 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8776	-.7439	-.8063
.200	-.2377	-.1337	-.1198
.410	-.4041	-.1803	-.1634
.590	-.5071	-.1912	-.1773
.770		-.2407	-.1847
.950	-.4150	-.3090	-.2397

BETA (4) = 5.030 ALPHA (2) = 2.050 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8307	-.6929	-.7405
.200	-.2082	-.0981	-.0803
.410	-.4550	-.1487	-.1259
.590	-.4699	-.1546	-.1388
.770		-.2151	-.1489
.950	-.3777	-.3004	-.2082

BETA (4) = 5.020 ALPHA (3) = 4.110 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7895	-.6461	-.6589
.200	-.1810	-.0722	-.0455
.410	-.5145	-.1147	-.0940
.590	-.4531	-.1197	-.0959
.770		-.2038	-.1093
.950	-.3423	-.3097	-.1711

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 138

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (4) = 5.020 ALPHA (4) = 6.170 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7205	-.5820	-.5998
.200	-.1534	-.0574	-.0307
.410	-.5523	-.0801	-.0564
.590	-.4484	-.0851	-.0505
.770		-.2019	-.0678
.950	-.3118	-.3246	-.1306

BETA (4) = 5.030 ALPHA (5) = 8.260 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6477	-.5200	-.5358
.200	-.1238	-.0436	-.0198
.410	-.5576	-.0475	-.0148
.590	-.4407	-.0505	-.0039
.770		-.2100	-.0229
.950	-.3011	-.3357	-.0961

BETA (4) = 5.020 ALPHA (6) = 10.330 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5726	-.4689	-.4551
.200	-.0967	-.0335	-.0128
.410	-.5242	-.0098	.0325
.590	-.4373	-.0177	.0404
.770		-.2409	.0163
.950	-.2764	-.3495	-.0632

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 139

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (5) = 10.080 ALPHA (1) = -.010 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8279	-.8932	-1.0356
.200	-.4589	-.2819	-.3106
.410	-.9436	-.2848	-.2285
.590	-.7082	-.3650	-.2255
.770		-.6063	-.2630
.950	-.4204	-.6123	-.3294

BETA (5) = 10.080 ALPHA (2) = 2.040 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7440	-.8094	-.9183
.200	-.4696	-.2863	-.2663
.410	-.9292	-.2605	-.1932
.590	-.7053	-.3636	-.1882
.770		-.6528	-.2387
.950	-.3933	-.6132	-.3120

BETA (5) = 10.080 ALPHA (3) = 4.130 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6786	-.7331	-.8113
.200	-.4864	-.3091	-.2803
.410	-.9223	-.2298	-.1496
.590	-.7004	-.3804	-.1525
.770		-.6905	-.2162
.950	-.3606	-.5964	-.2982

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 140

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN14)

BETA (5) = 10.080 ALPHA (4) = 6.180 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6310	-.6765	-.7438
.200	-.4925	-.3086	-.2749
.410	-.9317	-.1978	-.1137
.590	-.7082	-.4075	-.1177
.770		-.7378	-.1979
.950	-.3274	-.5756	-.2878

BETA (5) = 10.080 ALPHA (5) = 8.270 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5881	-.6237	-.6979
.200	-.5160	-.2995	-.2520
.410	-.9460	-.1641	-.0731
.590	-.7087	-.4448	-.0830
.770		-.7700	-.1832
.950	-.2936	-.5407	-.2886

BETA (5) = 10.080 ALPHA (6) = 10.320 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5513	-.5771	-.6743
.200	-.5572	-.3014	-.2548
.410	-.9658	-.1299	-.0327
.590	-.7218	-.5067	-.0466
.770		-.7873	-.1737
.950	-.2608	-.4928	-.2984

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 141

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 35.000
PHI-M = 88.000 THETAM = 35.000

BETA (1) = -10.090 ALPHA (1) = .010 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0386 -.0267 .0921
.200 .0227 .0336 .0535
.410 -.1060 -.0704 -.0723
.590 -.1179 -.1120 -.1229
.770 -.1566 -.1725
.950 -.2052 -.2200 -.2161

BETA (1) = -10.080 ALPHA (2) = 2.110 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0710 .0355 .0739
.200 .0700 .0848 .1075
.410 -.0533 -.0197 -.0207
.590 -.0710 -.0641 -.0700
.770 -.1135 -.1247
.950 -.1707 -.1806 -.1806

BETA (1) = -10.080 ALPHA (3) = 4.100 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1555 .1109 .0921
.200 .1218 .1327 .1575
.410 -.0039 .0306 .0316
.590 -.0238 -.0148 -.0218
.770 -.0693 -.0757
.950 -.1347 -.1456 -.1407

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 142

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (1) = -10.090 ALPHA (4) = 6.210 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2688	.1783	.1257
.200	.1693	.1823	.2041
.410	.0475	.0802	.0851
.590	.0237	.0346	.0326
.770		-.0228	-.0263
.950	-.0981	-.1070	-.1020

BETA (1) = -10.090 ALPHA (5) = 8.280 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3560	.2460	.1747
.200	.2153	.2292	.2549
.410	.0986	.1342	.1362
.590	.0720	.0799	.0809
.770		.0187	.0196
.950	-.0562	-.0671	-.0622

BETA (1) = -10.090 ALPHA (6) = 10.350 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4244	.3273	.2163
.200	.2629	.2758	.2996
.410	.1510	.1816	.1866
.590	.1233	.1342	.1322
.770		.0690	.0689
.950	-.0168	-.0276	-.0217

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 143

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4481	-.3652	-.4599
.200	-.0089	.0108	-.0029
.410	-.1204	-.0928	-.1046
.590	-.1184	-.1184	-.1382
.770		-.1480	-.1605
.950	-.1895	-.1974	-.1875

BETA (2) = -5.060 ALPHA (2) = 2.060 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3837	-.3016	-.3827
.200	.0266	.0533	.0543
.410	-.0732	-.0465	-.0524
.590	-.0732	-.0741	-.0850
.770		-.1088	-.1160
.950	-.1572	-.1632	-.1493

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2789	-.2423	-.3037
.200	.0622	.0969	.1097
.410	-.0267	.0009	.0029
.590	-.0287	-.0306	-.0356
.770		-.0672	-.0689
.950	-.1246	-.1315	-.1157

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (2) = -5.060 ALPHA (4) = 6.190 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1745	-.1834	-.2102
.200	.1001	.1348	.1516
.410	.0198	.0475	.0525
.590	.0138	.0158	.0128
.770		-.0267	-.0263
.950	-.0912	-.0961	-.0813

BETA (2) = -5.060 ALPHA (5) = 8.250 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0704	-.1359	-.1339
.200	.1408	.1676	.1974
.410	.0694	.0952	.1031
.590	.0614	.0644	.0634
.770		.0168	.0220
.950	-.0585	-.0615	-.0496

BETA (2) = -5.060 ALPHA (6) = 10.320 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0770	-.0889	-.0671
.200	.1787	.1996	.2402
.410	.1155	.1362	.1481
.590	.1046	.1076	.1125
.770		.0592	.0712
.950	-.0247	-.0286	-.0158

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 145

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6897	-.5314	-.6501
.200	-.1227	-.0445	-.0455
.410	-.1692	-.1336	-.1306
.590	-.1543	-.1444	-.1524
.770	-.1702	-.1711	
.950	-.2117	-.2107	-.1999

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6272	-.4744	-.5845
.200	-.0943	-.0109	.0000
.410	-.1320	-.0933	-.0843
.590	-.1369	-.1052	-.1072
.770		-.1350	-.1299
.950	-.1806	-.1836	-.1727

BETA (3) = .000 ALPHA (3) = 4.100 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5398	-.4130	-.5081
.200	-.0594	.0178	.0425
.410	-.0951	-.0525	-.0396
.590	-.1119	-.0604	-.0604
.770		-.0931	-.0836
.950	-.1555	-.1515	-.1387

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4491	-.3527	-.4312
.200	-.0228	.0456	.0814
.410	-.0715	-.0119	-.0010
.590	-.0725	-.0169	-.0129
.770		-.0546	-.0376
.950	-.1430	-.1272	-.1063

BETA (3) = .000 ALPHA (5) = 8.250 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3523	-.3030	-.3514
.200	.0078	.0749	.1203
.410	-.0592	.0285	.0384
.590	-.0385	.0246	.0325
.770		-.0168	.0051
.950	-.1540	-.1016	-.0740

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2211	-.2734	-.2556
.200	.0463	.1016	.1598
.410	-.0631	.0661	.0799
.590	-.0108	.0670	.0838
.770		.0137	.0532
.950	-.1767	-.0622	-.0296

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 147

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (4) = 5.050 ALPHA (1) = -.010 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8688	-.7393	-.8026
.200	-.2827	-.1384	-.1127
.410	-.3776	-.2085	-.1987
.590	-.2847	-.1987	-.1927
.770		-.2441	-.1967
.950	-.3024	-.3143	-.2382

BETA (4) = 5.050 ALPHA (2) = 2.050 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8146	-.6839	-.7275
.200	-.2504	-.1059	-.0782
.410	-.3811	-.1712	-.1613
.590	-.2484	-.1544	-.1385
.770		-.2276	-.1588
.950	-.2742	-.2979	-.2019

BETA (4) = 5.050 ALPHA (3) = 4.120 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7731	-.6315	-.6543
.200	-.2227	-.0821	-.0475
.410	-.3702	-.1296	-.1188
.590	-.2197	-.1158	-.0881
.770		-.2237	-.1228
.950	-.2415	-.2682	-.1673

C-3

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 148

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (4) = 5.050 ALPHA (4) = 6.180 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7020	-.5779	-.6008
.200	-.1946	-.0725	-.0308
.410	-.3307	-.0903	-.0754
.590	-.1867	-.0893	-.0387
.770		-.2204	-.0804
.950	-.2115	-.2274	-.1340

BETA (4) = 5.050 ALPHA (5) = 8.250 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6337	-.5156	-.5375
.200	-.1656	-.0605	-.0188
.410	-.2876	-.0506	-.0287
.590	-.1527	-.0753	.0128
.770		-.1745	-.0409
.950	-.1834	-.1765	-.1170

BETA (4) = 5.050 ALPHA (6) = 10.310 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5534	-.4661	-.4532
.200	-.1428	-.0456	-.0079
.410	-.2678	-.0099	.0138
.590	-.1398	-.0773	.0624
.770		-.1210	-.0015
.950	-.1557	-.1408	-.0992

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 149

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (5) = 10.120 ALPHA (1) = .000 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8347	-.9059	-1.0525
.200	-.5604	-.2861	-.2762
.410	-.6970	-.3000	-.2534
.590	-.3267	-.3337	-.2129
.770		-.3604	-.2925
.950	-.3733	-.3386	-.3138

BETA (5) = 10.120 ALPHA (2) = 2.060 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7691	-.8226	-.9356
.200	-.5758	-.2914	-.2666
.410	-.6541	-.2636	-.2101
.590	-.2884	-.3330	-.1754
.770		-.3171	-.2714
.950	-.3627	-.3132	-.3003

BETA (5) = 10.120 ALPHA (3) = 4.130 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7057	-.7512	-.8284
.200	-.5968	-.2920	-.2454
.410	-.6196	-.2316	-.1663
.590	-.2464	-.3286	-.1385
.770		-.2672	-.2576
.950	-.3523	-.2890	-.2771

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN15)

BETA (5) = 10.120 ALPHA (4) = 6.170 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6576	-.6903	-.7478
.200	-.6101	-.2832	-.2337
.410	-.5794	-.2000	-.1248
.590	-.2119	-.3120	-.1079
.770		-.2189	-.2420
.950	-.3456	-.2654	-.2535

BETA (5) = 10.120 ALPHA (5) = 8.240 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6123	-.6390	-.7024
.200	-.6301	-.2724	-.2160
.410	-.5409	-.1714	-.0852
.590	-.1892	-.2645	-.0802
.770		-.1773	-.2196
.950	-.3497	-.2497	-.2259

BETA (5) = 10.120 ALPHA (6) = 10.370 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5764	-.6042	-.6727
.200	-.6786	-.2639	-.2004
.410	-.5000	-.1508	-.0486
.590	-.1716	-.1885	-.0585
.770		-.1399	-.1850
.950	-.3571	-.2272	-.1934

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 151

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN16) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 50.000
PHI-M = 88.000 THETAM = 50.000

BETA (1) = -10.110 ALPHA (1) = .010 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0455 .0029 .1079
.200 .0623 .0603 .0703
.410 -.0792 -.0574 -.0644
.590 -.1476 -.1258 -.1258
.770 -.1703 -.1870
.950 -.1981 -.2139 -.2248

BETA (1) = -10.110 ALPHA (2) = 2.060 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0663 .0723 .0951
.200 .1129 .1099 .1218
.410 -.0297 -.0039 -.0139
.590 -.1040 -.0753 -.0753
.770 -.1288 -.1421
.950 -.1615 -.1784 -.1883

BETA (1) = -10.110 ALPHA (3) = 4.110 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1671 .1365 .1197
.200 .1602 .1592 .1751
.410 .0197 .0435 .0415
.590 -.0574 -.0316 -.0247
.770 -.0851 -.0947
.950 -.1276 -.1405 -.1504

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (1) = -10.110 ALPHA (4) = 6.180 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2697	.1932	.1465
.200	.2081	.2041	.2200
.410	.0653	.0911	.0930
.590	-.0079	.0178	.0247
.770		-.0386	-.0431
.950	-.0891	-.1000	-.1079

BETA (1) = -10.110 ALPHA (5) = 8.260 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3639	.2725	.1851
.200	.2566	.2526	.2675
.410	.1128	.1415	.1444
.590	.0415	.0652	.0761
.770		.0108	.0062
.950	-.0514	-.0594	-.0663

BETA (1) = -10.110 ALPHA (6) = 10.370 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4355	.3391	.2268
.200	.3043	.2954	.3113
.410	.1633	.1881	.1950
.590	.0940	.1167	.1306
.770		.0554	.0568
.950	-.0049	-.0208	-.0198

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 153

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3931	-.3228	-.4100
.200	.0445	.0405	.0227
.410	-.1030	-.0792	-.0832
.590	-.1455	-.1327	-.1455
.770		-.1604	-.1723
.950	-.1743	-.1782	-.1891

BETA (2) = -5.060 ALPHA (2) = 2.050 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3333	-.2581	-.3412
.200	.0810	.0840	.0790
.410	-.0613	-.0326	-.0346
.590	-.1058	-.0900	-.0979
.770		-.1236	-.1283
.950	-.1424	-.1444	-.1493

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2345	-.2018	-.2711
.200	.1147	.1246	.1295
.410	-.0217	.0088	.0148
.590	-.0623	-.0465	-.0455
.770		-.0801	-.0824
.950	-.1108	-.1118	-.1128

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 154

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (2) = -5.060 ALPHA (4) = 6.180 Q(PSF) = 42.948 P0/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1453	-.1433	-.1947
.200	.1512	.1620	.1739
.410	.0217	.0523	.0622
.590	-.0217	-.0020	.0009
.770		-.0395	-.0408
.950	-.0791	-.0771	-.0721

BETA (2) = -5.070 ALPHA (5) = 8.250 Q(PSF) = 42.948 P0/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0514	-.0929	-.1166
.200	.1858	.1927	.2136
.410	.0652	.0928	.1116
.590	.0236	.0444	.0543
.770		.0009	.0073
.950	-.0484	-.0415	-.0415

BETA (2) = -5.070 ALPHA (6) = 10.330 Q(PSF) = 42.948 P0/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0602	-.0435	-.0494
.200	.2206	.2265	.2573
.410	.1067	.1393	.1541
.590	.0691	.0909	.1018
.770		.0454	.0544
.950	-.0128	-.0049	-.0010

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 155

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.6539	- 5023	-.6242
.200	-.0703	-.0267	-.0297
.410	-.2180	-.1526	-.1427
.590	-.2407	- 1823	- 1763
.770		-.1991	-.1983
.950	- 2754	-.2308	-.2249

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5893	- 4447	-.5547
.200	-.0465	.0049	.0148
.410	-.1812	-.1149	- 0961
.590	-.2228	- 1377	-.1297
.770		- 1565	- 1544
.950	-.2496	- 1971	- 1931

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	- 5126	-.3812	- 4800
.200	- 0168	.0345	.0572
.410	- 1422	- 0750	- 0513
.590	-.2074	- 0938	- 0810
.770		- 1145	- 1113
.950	-.2094	- 1590	- 1600

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4277	-.3240	-.4168
.200	.0108	.0631	.0938
.410	-.1116	-.0345	-.0099
.590	-.1975	-.0464	-.0276
.770		.0711	-.0688
.950	-.1758	.1215	-.1225

BETA (3) = .000 ALPHA (5) = 8.250 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3255	-.2701	-.3304
.200	.0435	.0909	.1305
.410	-.0831	.0049	.0276
.590	-.1830	.0000	.0177
.770		-.0287	-.0240
.950	-.1494	-.0851	-.0801

BETA (3) = -.010 ALPHA (6) = 10.340 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2000	-.2544	-.2336
.200	.0752	.1128	.1653
.410	-.0713	.0425	.0692
.590	-.1415	.0425	.0682
.770		.0148	.0276
.950	-.1188	-.0495	-.0317

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 157

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (4) = 5.050 ALPHA (1) = .000 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8537	-.7161	-.7785
.200	-.2575	-.1357	-.1139
.410	-.5883	-.2595	-.2208
.590	-.5091	-.2436	-.2189
.770		-.2743	-.2420
.950	-.3872	-.3011	-.2476

BETA (4) = 5.050 ALPHA (2) = 2.090 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8078	-.6679	-.7056
.200	-.2282	-.1072	-.0623
.410	-.6212	-.2203	-.1796
.590	-.4486	-.1985	-.1677
.770		-.2491	-.2008
.950	-.3404	-.2878	-.2134

BETA (4) = 5.050 ALPHA (3) = 4.140 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7602	-.6149	-.6307
.200	-.1957	-.0890	-.0563
.410	-.6485	-.1799	-.1364
.590	-.3855	-.1582	-.1245
.770		-.2313	-.1586
.950	-.2976	-.2877	-.1720

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (4) = 5.050 ALPHA (4) = 6.200 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6958	-.5632	-.5869
.200	-.1672	-.0772	-.0346
.410	-.6760	-.1376	-.0910
.590	-.3385	-.1217	-.0732
.770		-.2286	-.1150
.950	-.2633	-.2969	-.1267

BETA (4) = 5.050 ALPHA (5) = 8.280 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6222	-.5085	-.5223
.200	-.1335	-.0623	-.0208
.410	-.6737	-.0969	-.0455
.590	-.3037	-.0821	-.0227
.770		-.2374	-.0666
.950	-.2285	-.3165	-.0870

BETA (4) = 5.050 ALPHA (6) = 10.330 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5406	-.4655	-.4537
.200	-.1028	-.0484	-.0128
.410	-.6177	-.0553	.0049
.590	-.2639	-.0494	.0316
.770		-.2392	-.0228
.950	-.1986	-.3034	-.0494

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 159

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (5) = 10.110 ALPHA (1) = .030 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8405	-.9047	-1.0430
.200	-.4879	-.2805	-.2894
.410	-1.2385	-.3921	-.2923
.590	-.7160	-.4168	-.2755
.770	-.4810	-.2962	
.950	-.3259	-.4336	-.3081

BETA (5) = 10.110 ALPHA (2) = 2.060 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7695	-.8210	-.9389
.200	-.5041	-.2872	-.2634
.410	-1.1944	-.3565	-.2486
.590	-.6576	-.4061	-.2357
.770	-.4922	-.2645	
.950	-.3110	-.4278	-.2862

BETA (5) = 10.110 ALPHA (3) = 4.130 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7023	-.7539	-.8460
.200	-.5121	-.2853	-.2417
.410	-1.1263	-.3180	-.2011
.590	-.5845	-.4052	-.1912
.770	-.5003	-.2342	
.950	-.2922	-.4101	-.2684

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN16)

BETA (5) = 10.110 ALPHA (4) = 6.210 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6483	-.6939	-.7732
.200	-.5204	-.2756	-.2250
.410	-1.0835	-.2766	-.1546
.590	-.5125	-.4134	-.1536
.770		-.4828	-.2096
.950	-.2885	-.3876	-.2557

BETA (5) = 10.110 ALPHA (5) = 8.260 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6026	-.6393	-.7136
.200	-.5322	-.2696	-.2131
.410	-1.0457	-.2398	-.1169
.590	-.4460	-.4192	-.1110
.770		-.4381	-.1972
.950	-.2854	-.3509	-.2478

BETA (5) = 10.110 ALPHA (6) = 10.340 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5718	-.5916	-.6707
.200	-.5738	-.2621	-.2018
.410	-1.0219	-.2028	-.0672
.590	-.3828	-.4175	-.0682
.770		-.3502	-.2002
.950	-.2780	-.3076	-.2374

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 161

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPD8RK = 25.000
PHI-N = 66.000 THETAN = 65.000
PHI-M = 88.000 THETAM = 65.000

BETA (1) = -10.110 ALPHA (1) = .010 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 - .0277 .0168 .1257
.200 .0584 .0623 .0782
.410 -.0218 -.0218 -.0446
.590 -.1169 -.1060 -.1149
.770 -.1763 -.1758
.950 - .2090 -.2219 -.2298

BETA (1) = -10.100 ALPHA (2) = 2.110 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0812 .0782 .1169
.200 .1119 .1169 .1357
.410 .0287 .0277 .0038
.590 -.0703 -.0604 -.0634
.770 -.1357 -.1308
.950 -.1754 -.1873 -.1962

BETA (1) = -10.100 ALPHA (3) = 4.170 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1675 .1378 .1239
.200 .1636 .1695 .1874
.410 .0783 .0773 .0674
.590 -.0238 -.0119 -.0139
.770 -.0902 -.0848
.950 -.1378 -.1458 -.1577

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 162

OA163 ORB

NOSF GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (1) = -10.100 ALPHA (4) = 6.230 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2636	.2042	.1616
.200	.2111	.2170	.2339
.410	.1261	.1261	.1153
.590	.0226	.0364	.0325
.770		-.0453	-.0385
.950	-.1006	-.1055	-.1223

BETA (1) = -10.100 ALPHA (5) = 8.300 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3600	.2718	.1965
.200	.2609	.2609	.2788
.410	.1757	.1727	.1648
.590	.0690	.0809	.0858
.770		-.0039	.0073
.950	-.0622	-.0691	-.0790

BETA (1) = -10.110 ALPHA (6) = 10.360 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4307	.3375	.2364
.200	.3068	.3068	.3266
.410	.2235	.2205	.2145
.590	.1165	.1284	.1333
.770		.0424	.0555
.950	-.0257	-.0296	-.0425

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 163

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (2) = -5.060 ALPHA (1) = .010 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3924	-.3264	-.4092
.200	.0482	.0443	.0246
.410	-.0493	-.0513	-.0798
.590	-.1439	-.1252	-.1311
.770	-.1755	-.1682	
.950	-.1903	-.1923	-.2002

BETA (2) = -5.060 ALPHA (2) = 2.120 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3281	-.2560	-.3419
.200	.0869	.0938	.0829
.410	-.0089	-.0079	-.0257
.590	-.1038	-.0810	-.0810
.770		-.1354	-.1238
.950	-.1542	-.1601	-.1621

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2497	-.1952	-.2665
.200	.1248	.1317	.1367
.410	.0296	.0326	.0217
.590	-.0664	-.0376	-.0347
.770		-.0951	-.0791
.950	-.1238	-.1258	-.1278

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 164

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (2) = -5.060 ALPHA (4) = 6.210 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1417	-.1377	-.1952
.200	.1614	.1733	.1823
.410	.0713	.0752	.0723
.590	-.0297	-.0010	.0128
.770	-.0535	-.0353	
.950	-.0941	-.0872	-.0971

BETA (2) = -5.060 ALPHA (5) = 8.270 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0535	-.0792	-.1199
.200	.2012	.2091	.2221
.410	.1119	.1168	.1168
.590	.0098	.0425	.0614
.770		-.0148	.0062
.950	-.0683	-.0545	-.0565

BETA (2) = -5.060 ALPHA (6) = 10.350 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0425	-.0257	-.0534
.200	.2377	.2387	.2615
.410	.1494	.1573	.1652
.590	.0534	.0840	.1048
.770		.0266	.0545
.950	-.0115	-.0208	-.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 165

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6343	-.4940	-.6234
.200	-.0375	-.0108	-.0178
.410	-.1472	-.1176	-.1225
.590	-.3053	-.1828	-.1610
.770	-.2381	-.2134	
.950	-.4051	-.2845	-.2766

BETA (3) = .000 ALPHA (2) = 2.080 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5729	-.4299	-.5540
.200	-.0129	.0257	.0277
.410	-.1171	-.0824	-.0764
.590	-.3048	-.1459	-.1201
.770	-.1996	-.1728	
.950	-.3932	-.2492	-.2462

BETA (3) = .000 ALPHA (3) = 4.140 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5007	-.3738	-.4789
.200	.0138	.0535	.0664
.410	-.0872	-.0476	-.0337
.590	-.3202	-.1061	-.0763
.770	-.1586	-.1320	
.950	-.3668	-.2132	-.2112

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (3) = .000 ALPHA (4) = 6.180 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4219	-.3140	-.4081
.200	.0445	.0782	.1049
.410	-.0535	-.0129	.0039
.590	-.3476	-.0653	-.0297
.770	-.1169	-.0892	
.950	-.3130	-.1713	-.1753

BETA (3) = .000 ALPHA (5) = 8.290 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3228	-.2614	-.3258
.200	.0722	.1099	.1406
.410	-.0356	.0227	.0405
.590	-.3803	-.0247	.0138
.770	-.0752	-.0476	
.950	-.2634	-.1277	-.1366

BETA (3) = .000 ALPHA (6) = 10.320 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2127	-.2424	-.2295
.200	.1038	.1315	.1691
.410	-.0287	.0563	.0840
.590	-.4067	.0177	.0623
.770	-.0316	.0028	
.950	-.2256	-.0890	-.0851

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 167

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (4) = 5.050 ALPHA (1) = .000 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8353	-.7019	-.7651
.200	-.2155	-.1156	-.1048
.410	-.6435	-.2323	-.2056
.590	-.7977	-.2817	-.2224
.770	-.3707	-.2819	
.950	-.4745	-.4063	-.3222

BETA (4) = 5.050 ALPHA (2) = 2.090 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7862	-.6470	-.6924
.200	-.1857	-.0849	-.0691
.410	-.7003	-.1956	-.1679
.590	-.7339	-.2400	-.1748
.770	-.3437	-.2447	
.950	-.4287	-.3901	-.2874

BETA (4) = 5.050 ALPHA (3) = 4.130 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7467	-.6010	-.6257
.200	-.1577	-.0714	-.0436
.410	-.7805	-.1616	-.1279
.590	-.7011	-.2053	-.1309
.770	-.3352	-.1984	
.950	-.3858	-.3917	-.2449

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 168

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (4) = 5.060 ALPHA (4) = 6.180 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6826	-.5463	-.5690
.200	-.1264	-.0563	-.0286
.410	-.8318	-.1244	-.0839
.590	-.6747	-.1689	-.0849
.770		-.3200	-.1596
.950	-.3438	-.3852	-.2045

BETA (4) = 5.060 ALPHA (5) = 8.260 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6154	-.4987	-.5095
.200	-.0920	-.0425	-.0158
.410	-.8499	-.0851	-.0396
.590	-.6570	-.1336	-.0376
.770		-.3047	-.1149
.950	-.3126	-.3799	-.1692

BETA (4) = 5.060 ALPHA (6) = 10.370 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5363	-.4585	-.4398
.200	-.0639	-.0305	-.0088
.410	-.8266	-.0472	.0098
.590	-.6435	-.1013	.0107
.770		-.3050	-.0663
.950	-.2785	-.3788	-.1269

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 169

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (5) = 10.120 ALPHA (1) = .010 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8288	-.8871	-1.0264
.200	-.4179	-.2598	-.2588
.410	-1.3277	-.3615	-.2786
.590	-1.0304	-.5512	-.2973
.770		-.7290	-.3804
.950	-.3912	-.5720	-.3981

BETA (5) = 10.120 ALPHA (2) = 2.050 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7571	-.8084	-.9367
.200	-.4294	-.2625	-.2329
.410	-1.2931	-.3287	-.2339
.590	-.9989	-.5518	-.2596
.770		-.7561	-.3532
.950	-.3573	-.5607	-.3761

BETA (5) = 10.120 ALPHA (3) = 4.140 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7052	-.7517	-.8496
.200	-.4391	-.2581	-.2156
.410	-1.2699	-.2937	-.1919
.590	-.9693	-.5519	-.2225
.770		-.7853	-.3225
.950	-.3303	-.5430	-.3570

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN17)

BETA (5) = 10.120 ALPHA (4) = 6.220 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6525	-.6942	-.7825
.200	-.4562	-.2628	-.2112
.410	-1.2684	-.2588	-.1497
.590	-.9580	-.5742	-.1825
.770	-.8013	-.2986	
.950	-.2925	-.5127	-.3421

BETA (5) = 10.120 ALPHA (5) = 8.270 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6215	-.6532	-.7315
.200	-.4768	-.2537	-.2022
.410	-1.2728	-.2220	-.1090
.590	-.9575	-.5977	-.1388
.770	-.7930	-.2748	
.950	-.2587	-.4649	-.3301

BETA (5) = 10.120 ALPHA (6) = 10.340 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5826	-.6014	-.6845
.200	-.5242	-.2562	-.2047
.410	-1.2869	-.1879	-.0583
.590	-.9545	-.6350	-.0890
.770	-.7804	-.2529	
.950	-.2166	-.4036	-.3145

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 171

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
SCALE = 0405

MACH = .170 ELEVON = .000
BOFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 80.000
PHI-M = 88.000 THETAM = 80.000

BETA (1) = -10.110 ALPHA (1) = .020 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0316 .0197 .1315
.200 .0444 .0543 .0731
.410 -.0198 -.0168 -.0396
.590 -.0663 -.0762 -.0979
.770 -.1622 -.1643
.950 -.2414 -.2404 -.2266

BETA (1) = -10.110 ALPHA (2) = 2.050 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0722 .0841 .1178
.200 .1019 .1088 .1286
.410 .0346 .0356 .0138
.590 -.0208 -.0307 -.0485
.770 -.1208 -.1206
.950 -.2069 -.2039 -.1881

BETA (1) = -10.110 ALPHA (3) = 4.110 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1711 .1483 .1325
.200 .1533 .1622 .1810
.410 .0860 .0860 .0682
.590 .0266 .0158 .0009
.770 -.0791 -.0723
.950 -.1751 -.1682 -.1513

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (1) = -10.110 ALPHA (4) = 5.150 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2180	.1703	.1455
.200	.1782	.1871	.2060
.410	.1128	.1098	.0960
.590	.0534	.0405	.0267
.770		-.0535	-.0487
.950	-.1505	-.1475	-.1327

BETA (1) = -10.110 ALPHA (5) = 6.210 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2652	.2064	.1706
.200	.2034	.2134	.2303
.410	.1368	.1388	.1229
.590	.0723	.0654	.0535
.770		-.0337	-.0252
.950	-.1319	-.1250	-.1101

BETA (1) = -10.110 ALPHA (6) = 8.270 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3528	.2714	.2009
.200	.2525	.2624	.2783
.410	.1899	.1870	.1770
.590	.1186	.1097	.1028
.770		.0078	.0219
.950	-.0920	-.0841	-.0692

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 173

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (1) = -10.110 ALPHA (7) = 10.340 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4237	.3402	.2379
.200	.3015	.3064	.3253
.410	.2379	.2359	.2269
.590	.1643	.1574	.1475
.770		.0544	.0680
.950	-.0544	-.0465	-.0317

BETA (2) = -5.000 ALPHA (1) = .000 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4112	-.3527	-.4330
.200	.0396	.0376	.0227
.410	-.0257	-.0337	-.0644
.590	-.0763	-.0862	-.1060
.770		-.1704	-.1702
.950	-.2685	-.2625	-.2497

BETA (2) = -5.000 ALPHA (2) = 2.070 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3552	-.2760	-.3621
.200	.0791	.0860	.0771
.410	.0167	.0108	-.0138
.590	-.0396	-.0485	-.0603
.770		-.1335	-.1273
.950	-.2325	-.2295	-.2127

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (2) = -5.000 ALPHA (3) = 4.110 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2690	-.2136	-.2809
.200	.1186	.1295	.1364
.410	.0583	.0514	.0345
.590	-.0029	-.0069	-.0148
.770		-.0969	-.0846
.950	-.1958	-.1978	-.1760

BETA (2) = -5.000 ALPHA (4) = 6.190 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1649	-.1521	-.2015
.200	.1580	.1718	.1817
.410	.0977	.0928	.0878
.590	.0315	.0315	.0315
.770		-.0533	-.0385
.950	-.1550	-.1560	-.1392

BETA (2) = -5.000 ALPHA (5) = 8.250 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0643	-.0861	-.1247
.200	.1969	.2069	.2208
.410	.1394	.1345	.1305
.590	.0633	.0702	.0722
.770		-.0138	.0107
.950	-.1108	-.1009	-.0841

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 175

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (2) = -5.000 ALPHA (6) = 10.330 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0325	-.0266	-.0582
.200	.2342	.2411	.2620
.410	.1737	.1728	.1737
.590	.0957	.1115	.1165
.770		.0256	.0600
.950	-.0819	-.0661	-.0484

BETA (3) = .000 ALPHA (1) = .010 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6167	-.4858	-.6127
.200	-.0267	-.0010	-.0069
.410	-.0922	-.0803	-.0942
.590	-.2082	-.1447	-.1408
.770		-.2320	-.2074
.950	-.5394	-.3163	-.2905

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5615	-.4248	-.5486
.200	-.0020	.0356	.0385
.410	-.0624	-.0475	-.0485
.590	-.2129	-.1079	-.1010
.770		-.1970	-.1734
.950	-.5149	-.2802	-.2604

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 176

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (3) = .000 ALPHA (3) = 4.110 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4913	-.3615	-.4705
.200	.0296	.0683	.0792
.410	-.0297	-.0099	-.0079
.590	-.2337	-.0693	-.0584
.770		-.1594	-.1319
.950	-.4616	-.2446	-.2248

BETA (3) = .000 ALPHA (4) = 6.180 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4094	-.3026	-.4015
.200	.0533	.0909	.1166
.410	.0000	.0227	.0276
.590	-.2739	-.0306	-.0138
.770		-.1196	-.0934
.950	-.4025	-.2037	-.1869

BETA (3) = .000 ALPHA (5) = 8.240 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3234	-.2500	-.3284
.200	.0833	.1190	.1517
.410	.0267	.0545	.0634
.590	-.3224	.0049	.0287
.770		-.0813	-.0522
.950	-.3601	-.1647	-.1478

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 177

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (3) = .000 ALPHA (6) = 10 310 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2116	-.2244	-.2254
.200	.1166	.1482	.1869
.410	.0335	.0889	.0988
.590	-.3609	.0454	.0761
.770		-.0385	-.0015
.950	-.3243	-.1206	-.0969

BETA (4) = 5.000 ALPHA (1) = -.020 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8074	-.6827	-.7569
.200	-.1890	-.0979	-.0851
.410	-.4908	-.1840	-.1761
.590	-.7292	-.2414	-.2078
.770		-.3720	-.2777
.950	-.5541	-.4542	-.3295

BETA (4) = 5.000 ALPHA (2) = 2.100 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 95.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7611	-.6304	-.6799
.200	-.1603	-.0653	-.0465
.410	-.5354	-.1514	-.1385
.590	-.6839	-.2019	-.1623
.770		-.3503	-.2407
.950	-.5196	-.4463	-.2969

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (4) = 5.000 ALPHA (3) = 4.110 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7366	-.5929	-.8167
.200	-.1368	-.0446	-.0208
.410	-.6097	-.1199	-.1031
.590	-.6653	-.1695	-.1180
.770		-.3381	-.2040
.950	-.4858	-.4521	-.2647

BETA (4) = 5.000 ALPHA (4) = 6.170 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6706	-.5391	-.5628
.200	-.1118	-.0346	-.0059
.410	-.6726	-.0831	-.0613
.590	-.6598	-.1315	-.0732
.770		-.3373	-.1609
.950	-.4629	-.4520	-.2265

BETA (4) = 5.000 ALPHA (5) = 8.290 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6103	-.4914	-.5043
.200	-.0783	-.0238	.0059
.410	-.7035	-.0485	-.0138
.590	-.6609	-.1020	-.0267
.770		-.3329	-.1241
.950	-.4538	-.4538	-.1882

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 179

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (4) = 5.000 ALPHA (6) = 10.310 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5358	-.4518	-.4458
.200	-.0464	-.0118	.0128
.410	-.6762	-.0118	.0325
.590	-.6564	-.0731	.0187
.770		-.3489	-.0756
.950	-.4132	-.4646	-.1502

BETA (5) = 10.000 ALPHA (1) = .000 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8223	-.8679	-1.0026
.200	-.3844	-.2259	-.2269
.410	-1.1532	-.3071	-.2496
.590	-.9828	-.5063	-.2883
.770		-.8481	-.4028
.950	-.5053	-.7500	-.4349

BETA (5) = 10.000 ALPHA (2) = 2.080 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7555	-.7971	-.9278
.200	-.3891	-.2307	-.2079
.410	-1.1258	-.2782	-.2040
.590	-.9753	-.5178	-.2525
.770		-.9070	-.3779
.950	-.4822	-.7614	-.4218

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (5) = 10.000 ALPHA (3) = 4.120 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6964	-.7400	-.8411
.200	-.3953	-.2377	-.1932
.410	-1.1135	-.2457	-.1644
.590	-.9748	-.5359	-.2189
.770		-.9639	-.3590
.950	-.4577	-.7598	-.4072

BETA (5) = 10.000 ALPHA (4) = 6.200 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6372	-.6788	-.7579
.200	-.4037	-.2374	-.1650
.410	-1.1171	-.2117	-.1256
.590	-.9855	-.5669	-.1820
.770		-1.0053	-.3327
.950	-.4245	-.7460	-.3908

BETA (5) = 10.000 ALPHA (5) = 8.250 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5986	-.6323	-.6977
.200	-.4242	-.2299	-.1794
.410	-1.1309	-.1744	-.0842
.590	-1.0109	-.6026	-.1358
.770		-1.0298	-.3141
.950	-.3925	-.7176	-.3835

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ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 181

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN18)

BETA (5) = 10.000 ALPHA (6) = 10.360 Q(PSF) = 42.882 P0/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5779	-.5977	-.6701
.200	-.4629	-.2240	-.1715
.410	-1.1528	-.1417	-.0357
.590	-1.0309	-.6631	-.0961
.770		-1.0428	-.2940
.950	-.3558	-.6731	-.3757

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 182

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN19) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 95.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.070 ALPHA (1) = 010 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0208 .0256 .1325
.200 .0345 .0484 .0692
.410 -.0306 -.0247 -.0396
.590 -.0554 -.0653 -.0930
.770 -.1335 -.1475
.950 -.2592 -.2543 -.2196

BETA (1) = -10.070 ALPHA (2) = 2.060 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0685 .0784 .1241
.200 .0893 .1032 .1241
.410 .0218 .0297 .0138
.590 -.0089 -.0188 -.0437
.770 -.0924 -.1041
.950 -.2225 -.2185 -.1847

BETA (1) = -10.070 ALPHA (3) = 4.150 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1526 .1457 .1348
.200 .1447 .1576 .1775
.410 .0743 .0822 .0683
.590 .0376 .0267 .0059
.770 -.0476 -.0567
.950 -.1815 -.1785 -.1448

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 183

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (1) = -10.070 ALPHA (4) = 6.210 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2638	.2012	.1674
.200	.1982	.2081	.2300
.410	.1307	.1367	.1258
.590	.0861	.0762	.0574
.770		-.0049	-.0072
.950	-.1397	-.1357	-.1050

BETA (1) = -10.070 ALPHA (5) = 8.250 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3445	.2729	.1953
.200	.2470	.2550	.2749
.410	.1814	.1824	.1774
.590	.1328	.1228	.1080
.770		.0386	.0388
.950	-.0991	-.0922	-.0654

BETA (1) = -10.070 ALPHA (6) = 10.360 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4196	.3335	.2347
.200	.2970	.3019	.3227
.410	.2317	.2307	.2248
.590	.1783	.1684	.1566
.770		.0797	.0867
.950	-.0542	-.0502	-.0236

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 184

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (2) = -5.050 ALPHA (1) = -.010 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4187	-.3664	-.4335
.200	.0295	.0295	.0137
.410	-.0316	-.0385	-.0652
.590	-.0543	-.0711	-.0987
.770		-.1382	-.1483
.950	-.2824	-.2666	-.2360

BETA (2) = -5.050 ALPHA (2) = 2.050 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3594	-.2893	-.3624
.200	.0720	.0799	.0730
.410	.0108	.0078	-.0148
.590	-.0158	-.0296	-.0523
.770		-.1007	-.1046
.950	-.2459	-.2310	-.1955

BETA (2) = -5.050 ALPHA (3) = 4.120 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2812	-.2250	-.2901
.200	.1114	.1223	.1322
.410	.0542	.0532	.0345
.590	.0206	.0098	-.0039
.770		-.0621	-.0598
.950	-.2112	-.1944	-.1618

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 185

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (2) = -5.050 ALPHA (4) = 6.190 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1783	-.1585	-.2061
.200	.1496	.1674	.1803
.410	.0960	.0951	.0881
.590	.0594	.0485	.0435
.770		-.0238	-.0162
.950	-.1714	-.1585	-.1248

BETA (2) = -5.050 ALPHA (5) = 8.260 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0734	-.1001	-.1239
.200	.1894	.2073	.2222
.410	.1397	.1407	.1378
.590	.1011	.0941	.0892
.770		.0148	.0287
.950	-.1328	-.1219	-.0862

BETA (2) = -5.050 ALPHA (6) = 10.310 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0226	-.0434	-.0563
.200	.2262	.2371	.2629
.410	.1826	.1826	.1796
.590	.1362	.1302	.1302
.770		.0523	.0768
.950	-.0908	-.0839	-.0474

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 186

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (3) = -.010 ALPHA (1) = -.010 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6217	-.4946	-.6257
.200	-.0345	-.0059	-.0157
.410	-.0916	-.0827	-.0985
.590	-.1517	-.1182	-.1192
.770		-.1882	-.1681
.950	-.5784	-.3015	-.2680

BETA (3) = -.010 ALPHA (2) = 2.040 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5658	-.4305	-.5500
.200	-.0089	.0305	.0315
.410	-.0582	-.0474	-.0533
.590	-.1511	-.0819	-.0839
.770		-.1540	-.1315
.950	-.5836	-.2696	-.2360

BETA (3) = -.010 ALPHA (3) = 4.110 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5010	-.3703	-.4773
.200	.0197	.0633	.0762
.410	-.0247	-.0109	-.0089
.590	-.1644	-.0465	-.0426
.770		-.1168	-.0925
.950	-.5317	-.2347	-.2069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 187

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.965 P0/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4178	-.3087	-.4079
.200	.0495	.0912	.1141
.410	.0079	.0267	.0307
.590	-.2114	-.0099	.0000
.770		-.0814	-.0500
.950	-.4804	-.1945	-.1697

BETA (3) = -.010 ALPHA (5) = 8.280 Q(PSF) = 42.965 P0/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3303	-.2472	-.3392
.200	.0800	.1186	.1473
.410	.0345	.0603	.0652
.590	-.2492	.0256	.0425
.770		-.0405	-.0072
.950	-.4421	-.1533	-.1305

BETA (3) = -.010 ALPHA (6) = 10.330 Q(PSF) = 42.965 P0/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2211	-.2211	-.2310
.200	.1125	.1460	.1816
.410	.0463	.0917	.1006
.590	-.2794	.0641	.0878
.770		-.0010	.0376
.950	-.4107	-.1096	-.0849

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (4) = 5.040 ALPHA (1) = -.020 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8041	-.6847	-.7646
.200	-.1924	-.1055	-.0898
.410	-.4449	-.1786	-.1697
.590	-.6285	-.2032	-.1815
.770		-.3236	-.2277
.950	-.6206	-.4824	-.3196

BETA (4) = 5.040 ALPHA (2) = 2.050 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7575	-.6271	-.6893
.200	-.1649	-.0691	-.0573
.410	-.4948	-.1471	-.1363
.590	-.5955	-.1708	-.1402
.770		-.3101	-.1887
.950	-.5935	-.4918	-.2933

BETA (4) = 5.040 ALPHA (3) = 4.110 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7323	-.5878	-.6225
.200	-.1385	-.0475	-.0247
.410	-.5631	-.1138	-.1039
.590	-.5759	-.1346	-.0980
.770		-.3028	-.1497
.950	-.5651	-.5126	-.2622

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 189

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (4) = 5.040 ALPHA (4) = 6.200 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6749	-.5351	-.5639
.200	-.1120	-.0337	-.0049
.410	-.6224	-.0783	-.0584
.590	-.5787	-.1040	-.0525
.770		-.3092	-.1095
.950	-.5579	-.5361	-.2319

BETA (4) = 5.040 ALPHA (5) = 8.240 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6189	-.4922	-.5110
.200	-.0812	-.0228	.0069
.410	-.6605	-.0465	-.0188
.590	-.5823	-.0743	-.0099
.770		-.3288	-.0690
.950	-.5635	-.5536	-.1931

BETA (4) = 5.040 ALPHA (6) = 10.310 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5456	-.4565	-.4565
.200	-.0495	-.0119	.0128
.410	-.6446	-.0089	.0296
.590	-.5793	-.0465	.0306
.770		-.3673	-.0263
.950	-.5337	-.5793	-.1584

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 190

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8261	-.8764	-1.0148
.200	-.3834	-.2292	-.2421
.410	-1.1116	-.3053	-.2539
.590	-.9021	-.4535	-.2589
.770	-.8349	-.3446	
.950	-.5543	-.8261	-.4585

BETA (5) = 10.080 ALPHA (2) = 2.040 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7514	-.8039	-.9326
.200	-.3940	-.2356	-.2237
.410	-1.0851	-.2762	-.2148
.590	-.8940	-.4732	-.2287
.770	-.8960	-.3284	
.950	-.5217	-.8247	-.4574

BETA (5) = 10.080 ALPHA (3) = 4.100 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6981	-.7467	-.8508
.200	-.4026	-.2380	-.1943
.410	-1.0759	-.2409	-.1715
.590	-.9064	-.4978	-.1953
.770	-.9549	-.3132	
.950	-.4879	-.8161	-.4641

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 191

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN19)

BETA (5) = 10.080 ALPHA (4) = 6.180 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6467	-.6893	-.7705
.200	-.4150	-.2367	-.1802
.410	-1.0766	-.2109	-.1347
.590	-.9260	-.5338	-.1614
.770		-1.0122	-.2971
.950	-.4566	-.7903	-.4754

BETA (5) = 10.080 ALPHA (5) = 8.260 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6144	-.6481	-.7333
.200	-.4231	-.2269	-.1724
.410	-1.0871	-.1783	-.0941
.590	-.9572	-.5807	-.1238
.770		-1.0504	-.2860
.950	-.4201	-.7511	-.4816

BETA (5) = 10.080 ALPHA (6) = 10.310 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5853	-.6150	-.6990
.200	-.4607	-.2254	-.1611
.410	-1.1123	-.1473	-.0484
.590	-.9858	-.6456	-.0811
.770		-1.0609	-.2786
.950	-.3876	-.7000	-.4924

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN20) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
 BDFLAP = .000 SPDBRK = 25.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.030 ALPHA (1) = .010 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0317 .0178 .1249
 .200 .0317 .0456 .0684
 .410 -.0377 -.0258 -.0426
 .590 -.0545 -.0635 -.0873
 .770 -.1240 -.1389
 .950 -.2500 -.2549 -.2271

BETA (1) = -10.030 ALPHA (2) = 2.090 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0663 .0723 .1169
 .200 .0891 .1000 .1198
 .410 .0178 .0247 .0059
 .590 -.0069 -.0178 -.0366
 .770 -.0803 -.0937
 .950 -.2150 -.2170 -.1863

BETA (1) = -10.030 ALPHA (3) = 4.150 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1622 .1335 .1286
 .200 .1424 .1523 .1741
 .410 .0692 .0801 .0603
 .590 .0385 .0326 .0118
 .770 -.0376 -.0453
 .950 -.1771 -.1761 -.1445

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 193

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (1) = -10.030 ALPHA (4) = 6.240 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2576	.1970	.1643
.200	.1941	.2060	.2258
.410	.1237	.1316	.1167
.590	.0870	.0771	.0603
.770		.0069	.0006
.950	-.1336	-.1316	-.1049

BETA (1) = -10.030 ALPHA (5) = 8.310 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3401	.2656	.1990
.200	.2457	.2516	.2725
.410	.1811	.1841	.1722
.590	.1385	.1286	.1138
.770		.0494	.0511
.950	-.0940	-.0950	-.0633

BETA (1) = -10.040 ALPHA (6) = 10.360 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4198	.3323	.2359
.200	.2916	.3015	.3184
.410	.2289	.2329	.2260
.590	.1832	.1733	.1604
.770		.0910	.0972
.950	-.0564	-.0485	-.0267

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 194

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (2) = -5.020 ALPHA (1) = .030 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4210	-.3665	-.4279
.200	.0277	.0336	.0178
.410	-.0297	-.0327	-.0614
.590	-.0485	-.0663	-.0911
.770		-.1248	-.1364
.950	-.2734	-.2545	-.2407

BETA (2) = -5.020 ALPHA (2) = 2.060 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3616	-.2913	-.3616
.200	.0713	.0792	.0742
.410	.0138	.0128	-.0099
.590	-.0089	-.0238	-.0436
.770		-.0862	-.0937
.950	-.2388	-.2299	-.2031

BETA (2) = -5.020 ALPHA (3) = 4.130 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2888	-.2225	-.2859
.200	.1107	.1246	.1335
.410	.0563	.0573	.0385
.590	.0296	.0158	.0019
.770		-.0494	-.0476
.950	-.2047	-.1939	-.1672

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 195

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (2) = -5.020 ALPHA (4) = 6.210 Q(PSF) = 42.927 P0/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1799	-.1641	-.2066
.200	.1502	.1660	.1818
.410	.0988	.1007	.0919
.590	.0662	.0602	.0474
.770	-.0118	-.0049	
.950	-.1700	-.1591	-.1305

BETA (2) = -5.030 ALPHA (5) = 8.290 Q(PSF) = 42.927 P0/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0782	-.1039	-.1227
.200	.1910	.2049	.2198
.410	.1444	.1444	.1424
.590	.1108	.1009	.0959
.770		.0286	.0421
.950	-.1276	-.1207	-.0950

BETA (2) = -5.030 ALPHA (6) = 10.400 Q(PSF) = 42.927 P0/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0315	-.0494	-.0474
.200	.2284	.2383	.2631
.410	.1868	.1858	.1868
.590	.1472	.1412	.1452
.770		.0681	.0847
.950	-.0840	-.0840	-.0563

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 196

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (3) = -.010 ALPHA (1) = .010 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6185	-.4908	-.6185
.200	-.0297	-.0029	-.0059
.410	-.0831	-.0702	-.0871
.590	-.1336	-.1128	-.1197
.770	-.1801	-.1722	
.950	-.5750	-.3008	-.2721

BETA (3) = -.010 ALPHA (2) = 2.060 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5614	-.4257	-.5436
.200	-.0020	.0346	.0395
.410	-.0515	-.0366	-.0426
.590	-.1237	-.0752	-.0742
.770		-.1445	-.1330
.950	-.5723	-.2653	-.2426

BETA (3) = -.010 ALPHA (3) = 4.130 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4978	-.3681	-.4691
.200	.0237	.0682	.0821
.410	-.0178	.0000	.0009
.590	-.1247	-.0396	-.0336
.770		-.1078	-.0936
.950	-.5205	-.2276	-.2078

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 197

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4173	-.3083	-.4024
.200	.0564	.0951	.1199
.410	.0188	.0346	.0356
.590	-.1566	.0009	.0128
.770	-.0714	-.0533	
.950	-.4669	-.1883	-.1715

BETA (3) = -.010 ALPHA (5) = 8.340 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3244	-.2452	-.3224
.200	.0840	.1245	.1512
.410	.0464	.0682	.0731
.590	-.1997	.0415	.0553
.770		-.0306	-.0116
.950	-.4321	-.1463	-.1266

BETA (3) = -.010 ALPHA (6) = 10.350 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2257	-.2247	-.2247
.200	.1167	.1484	.1891
.410	.0613	.0999	.1059
.590	-.2406	.0781	.1029
.770		.0078	.0309
.950	-.4188	-.1049	-.0861

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 198

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (4) = 5.030 ALPHA (1) = .020 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7901	-.6663	-.7495
.200	-.1802	-.0921	-.0782
.410	-.4079	-.1673	-.1653
.590	-.5871	-.1930	-.1742
.770	-.3039	-.2296	
.950	-.6336	-.4812	-.3257

BETA (4) = 5.030 ALPHA (2) = 2.070 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7441	-.6164	-.6718
.200	-.1553	-.0593	-.0445
.410	-.4571	-.1336	-.1286
.590	-.5491	-.1553	-.1296
.770		-.2889	-.1969
.950	-.6055	-.4927	-.2948

BETA (4) = 5.030 ALPHA (3) = 4.120 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7103	-.5718	-.6084
.200	-.1276	-.0405	-.0148
.410	-.5223	-.1029	-.0930
.590	-.5332	-.1197	-.0841
.770		-.2829	-.1609
.950	-.5767	-.5124	-.2602

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 199

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (4) = 5.030 ALPHA (4) = 6.200 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6651	-.5243	-.5570
.200	-.1060	-.0287	-.0020
.410	-.5927	-.0694	-.0525
.590	-.5293	-.0862	-.0396
.770		-.2874	-.1207
.950	-.5590	-.5362	-.2270

BETA (4) = 5.030 ALPHA (5) = 8.280 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6040	-.4782	-.4960
.200	-.0762	-.0178	.0108
.410	-.6307	-.0336	-.0069
.590	-.5317	-.0554	.0078
.770		-.3000	-.0791
.950	-.5634	-.5564	-.1891

BETA (4) = 5.030 ALPHA (6) = 10.340 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5330	-.4410	-.4301
.200	-.0474	-.0069	.0167
.410	-.6210	.0029	.0375
.590	-.5261	-.0267	.0523
.770		-.3293	-.0374
.950	-.5330	-.5814	-.1552

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 200

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (5) = 10.050 ALPHA (1) = .030 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8065	-.8521	-.9948
.200	-.3755	-.2289	-.2289
.410	-1.0691	-.2843	-.2348
.590	-.8491	-.4191	-.2457
.770		-.7936	-.3624
.950	-.5945	-.8382	-.4498

BETA (5) = 10.050 ALPHA (2) = 2.100 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7314	-.7759	-.9016
.200	-.3820	-.2276	-.2039
.410	-1.0432	-.2514	-.1900
.590	-.8383	-.4404	-.2118
.770		-.8531	-.3384
.950	-.5691	-.8413	-.4345

BETA (5) = 10.040 ALPHA (3) = 4.170 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6668	-.7173	-.8095
.200	-.3913	-.2348	-.1882
.410	-1.0235	-.2209	-.1496
.590	-.8441	-.4538	-.1783
.770		-.9095	-.3208
.950	-.5439	-.8441	-.4310

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 201

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN20)

BETA (5) = 10.040 ALPHA (4) = 6.230 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6166	-.6532	-.7263
.200	-.4002	-.2322	-.1907
.410	-1.0287	-.1877	-.1116
.590	-.8636	-.4852	-.1433
.770		-.9615	-.3031
.950	-.5168	-.8330	-.4279

BETA (5) = 10.040 ALPHA (5) = 8.280 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5754	-.6042	-.6794
.200	-.4120	-.2337	-.1832
.410	-1.0489	-.1565	-.0743
.590	-.8944	-.5279	-.1030
.770		-.9924	-.2892
.950	-.4962	-.8072	-.4229

BETA (5) = 10.050 ALPHA (6) = 10.350 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5597	-.5786	-.6578
.200	-.4478	-.2239	-.1753
.410	-1.0739	-.1258	-.0317
.590	-.9224	-.5895	-.0624
.770		-1.0204	-.2769
.950	-.4716	-.7747	-.4300

OA163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN21) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 5.000
 BDFLAP = -11.700 SPDBRK = 25.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.050 ALPHA (1) = .050 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0356 .0177 .1306
 .200 .0296 .0465 .0673
 .410 -.0356 -.0247 -.0435
 .590 -.0534 -.0643 -.0861
 .770 -.1198 -.1375
 .950 -.2495 -.2535 -.2277

BETA (1) = -10.050 ALPHA (2) = 2.160 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0662 .0781 .1256
 .200 .0890 .0999 .1227
 .410 .0158 .0286 .0059
 .590 -.0089 -.0158 -.0356
 .770 -.0792 -.0925
 .950 -.2148 -.2187 -.1861

BETA (1) = -10.050 ALPHA (3) = 4.190 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1645 .1318 .1308
 .200 .1417 .1556 .1745
 .410 .0703 .0783 .0644
 .590 .0406 .0336 .0138
 .770 -.0337 -.0432
 .950 -.1745 -.1755 -.1438

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 ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 203

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (1) = -10.050 ALPHA (4) = 6.250 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2523	.1938	.1601
.200	.1928	.2067	.2245
.410	.1255	.1304	.1176
.590	.0869	.0790	.0642
.770	.0088	.0017	
.950	-.1344	-.1334	-.1018

BETA (1) = -10.050 ALPHA (5) = 8.340 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3490	.2646	.1950
.200	.2457	.2536	.2775
.410	.1811	.1831	.1751
.590	.1365	.1266	.1147
.770		.0514	.0489
.950	-.0940	-.0920	-.0643

BETA (1) = -10.050 ALPHA (6) = 10.430 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4169	.3316	.2354
.200	.2979	.3009	.3197
.410	.2304	.2354	.2265
.590	.1848	.1739	.1620
.770		.0909	.0970
.950	-.0553	-.0504	-.0237

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 204

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (2) = -5.050 ALPHA (1) = .070 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4188	-.3633	-.4307
.200	.0296	.0326	.0187
.410	-.0297	-.0336	-.0623
.590	-.0465	-.0643	-.0901
.770	-.1247	-.1375	
.950	-.2713	-.2633	-.2396

BETA (2) = -5.050 ALPHA (2) = 2.130 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3593	-.2870	-.3563
.200	.0702	.0821	.0771
.410	.0158	.0138	-.0089
.590	-.0069	-.0237	-.0425
.770		-.0851	-.0914
.950	-.2385	-.2286	-.1989

BETA (2) = -5.050 ALPHA (3) = 4.160 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2850	-.2207	-.2890
.200	.1128	.1236	.1345
.410	.0573	.0573	.0425
.590	.0286	.0168	.0019
.770		-.0495	-.0476
.950	-.2039	-.1940	-.1672

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 205

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (2) = -5.060 ALPHA (4) = 6.240 Q(PSF) = 42.950 P0/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1730	-.1611	-.2036
.200	.1522	.1670	.1809
.410	.0978	.1008	.0938
.590	.0701	.0602	.0503
.770		-.0109	-.0049
.950	-.1690	-.1582	-.1305

BETA (2) = -5.060 ALPHA (5) = 8.320 Q(PSF) = 42.950 P0/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0691	-.0997	-.1214
.200	.1926	.2044	.2203
.410	.1421	.1461	.1431
.590	.1105	.1016	.0977
.770		.0315	.0398
.950	-.1274	-.1195	-.0958

BETA (2) = -5.060 ALPHA (6) = 10.400 Q(PSF) = 42.950 P0/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0345	-.0504	-.0484
.200	.2294	.2373	.2651
.410	.1848	.1868	.1858
.590	.1442	.1422	.1452
.770		.0711	.0881
.950	-.0850	-.0850	-.0593

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 206

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (3) = -.030 ALPHA (1) = .060 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6183	- .4868	-.6164
.200	-.0287	-.0010	-.0059
.410	-.0851	-.0722	-.0880
.590	-.1316	-.1108	-.1177
.770	-.1781	-.1710	
.950	-.5728	-.3007	-.2740

BETA (3) = -.030 ALPHA (2) = 2.130 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5650	-.4245	-.5452
.200	-.0020	.0355	.0395
.410	-.0504	-.0376	-.0415
.590	-.1246	-.0752	-.0752
.770	-.1434	-.1340	
.950	-.5719	-.2652	-.2424

BETA (3) = -.030 ALPHA (3) = 4.230 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4982	-.3605	-.4635
.200	.0257	.0703	.0811
.410	-.0148	-.0010	.0029
.590	-.1268	-.0356	-.0307
.770	-.1060	-.0914	
.950	-.5210	-.2268	-.2030

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 207

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (3) = -.030 ALPHA (4) = 6.240 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4169	-.3050	-.3981
.200	.0514	.0950	.1168
.410	.0168	.0366	.0385
.590	-.1545	.0009	.0118
.770		-.0703	-.0510
.950	-.4674	-.1882	-.1713

BETA (3) = -.030 ALPHA (5) = 8.310 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3241	-.2520	-.3271
.200	.0829	.1215	.1511
.410	.0444	.0671	.0711
.590	-.1877	.0395	.0563
.770		-.0316	-.0128
.950	-.4348	-.1453	-.1314

BETA (3) = -.030 ALPHA (6) = 10.400 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2155	-.2234	-.2205
.200	.1166	.1502	.1849
.410	.0652	.1018	.1067
.590	-.2323	.0790	.1047
.770		.0078	.0354
.950	-.4143	-.1028	-.0840

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (4) = 5.000 ALPHA (1) = .070 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7934	-.6707	-.7440
.200	-.1790	-.0900	-.0742
.410	-.4105	-.1672	-.1632
.590	-.5847	-.1909	-.1721
.770		-.3017	-.2271
.950	-.6322	-.4749	-.3235

BETA (4) = 5.000 ALPHA (2) = 2.140 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7529	-.6144	-.6678
.200	-.1543	-.0603	-.0435
.410	-.4581	-.1335	-.1266
.590	-.5511	-.1543	-.1296
.770		-.2879	-.1946
.950	-.6065	-.4907	-.2938

BETA (4) = 5.000 ALPHA (3) = 4.160 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7179	-.5783	-.6050
.200	-.1307	-.0396	-.0178
.410	-.5199	-.1030	-.0931
.590	-.5298	-.1158	-.0802
.770		-.2812	-.1611
.950	-.5743	-.5080	-.2594

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 209

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (4) = 5.000 ALPHA (4) = 6.250 Q(PSF) = 42.917 P0/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6682	-.5284	-.5472
.200	-.1051	-.0277	.0009
.410	-.5839	-.0664	-.0515
.590	-.5324	-.0862	-.0396
.770		-.2835	-.1185
.950	-.5591	-.5333	-.2240

BETA (4) = 5.000 ALPHA (5) = 8.320 Q(PSF) = 42.917 P0/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6046	-.4780	-.4938
.200	-.0762	-.0168	.0088
.410	-.6264	-.0316	-.0079
.590	-.5334	-.0534	.0088
.770		-.3018	.9524
.950	-.5641	-.5552	-.1880

BETA (4) = 5.000 ALPHA (6) = 10.390 Q(PSF) = 42.917 P0/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5348	-.4389	-.4251
.200	-.0455	-.0069	.0148
.410	-.6198	.0039	.0395
.590	-.5259	-.0267	.0543
.770		-.3321	-.0374
.950	-.5348	-.5763	-.1532

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 210

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (5) = 10.020 ALPHA (1) = .040 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8096	-.8531	-.9867
.200	-.3711	-.2246	-.2237
.410	-1.0758	-.2850	-.2345
.590	-.8502	-.4216	-.2454
.770		-.7868	-.3597
.950	-.5948	-.8353	-.4454

BETA (5) = 10.020 ALPHA (2) = 2.120 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7315	-.7769	-.9025
.200	-.3736	-.2263	-.2046
.410	-1.0409	-.2520	-.1888
.590	-.8412	-.4290	-.2115
.770		-.8461	-.3391
.950	-.5674	-.8432	-.4339

BETA (5) = 10.020 ALPHA (3) = 4.190 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6680	-.7156	-.8128
.200	-.3885	-.2329	-.1873
.410	-1.0259	-.2210	-.1506
.590	-.8435	-.4620	-.1754
.770		-.9109	-.3164
.950	-.5441	-.8494	-.4262

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 211

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN21)

BETA (5) = 10.010 ALPHA (4) = 6.250 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6190	-.6547	-.7341
.200	-.3988	-.2381	-.1905
.410	-1.0317	-.1875	-.1081
.590	-.8690	-.4851	-.1418
.770	-.9633	-.3043	
.950	-.5228	-.8343	-.4276

BETA (5) = 10.010 ALPHA (5) = 8.360 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5799	-.6026	-.6758
.200	-.4067	-.2355	-.1880
.410	-1.0499	-.1534	-.0702
.590	-.8985	-.5333	-.0999
.770	-.9945	-.2901	
.950	-.4957	-.8065	-.4275

BETA (5) = 10.010 ALPHA (6) = 10.420 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5586	-.5735	-.6487
.200	-.4477	-.2268	-.1743
.410	-1.0786	-.1218	-.0277
.590	-.9171	-.5933	-.0614
.770		-1.0211	-.2769
.950	-.4695	-.7765	-.4328

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 212

0A163 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN22) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 5.000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.020 ALPHA (1) = 060 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0257 .0207 .1285
.200 .0325 .0474 .0662
.410 -.0336 -.0217 -.0405
.590 -.0514 -.0603 -.0830
.770 -.1196 -.1362
.950 -.2452 -.2521 -.2235

BETA (1) = -10.020 ALPHA (2) = 2.110 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0631 .0769 .1153
.200 .0857 .1015 .1213
.410 .0197 .0285 .0078
.590 -.0089 -.0158 -.0355
.770 -.0789 -.0911
.950 -.2130 -.2150 -.1864

BETA (1) = -10.020 ALPHA (3) = 4.160 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1634 .1386 .1277
.200 .1416 .1545 .1753
.410 .0713 .0802 .0623
.590 .0415 .0326 .0148
.770 -.0317 -.0420
.950 -.1734 -.1724 -.1416

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 213

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (1) = -10.020 ALPHA (4) = 6.230 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2542	.2019	.1565
.200	.1950	.2048	.2266
.410	.1259	.1338	.1151
.590	.0866	.0777	.0639
.770		.0088	.0028
.950	-.1339	-.1329	-.1024

BETA (1) = -10.020 ALPHA (5) = 8.290 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3412	.2629	.1985
.200	.2461	.2540	.2738
.410	.1787	.1837	.1728
.590	.1402	.1263	.1125
.770		.0503	.0510
.950	-.0918	-.0928	-.0652

BETA (1) = -10.020 ALPHA (6) = 10.380 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4183	.3302	.2311
.200	.2925	.2985	.3183
.410	.2281	.2301	.2232
.590	.1816	.1737	.1608
.770		.0937	.0958
.950	-.0562	-.0533	-.0256

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 214

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (2) = -5.020 ALPHA (1) = .020 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4243	-.3688	-.4313
.200	.0297	.0297	.0198
.410	-.0307	-.0347	-.0644
.590	-.0466	-.0654	-.0892
.770	-.1229	-.1377	
.950	-.2726	-.2647	-.2399

BETA (2) = -5.020 ALPHA (2) = 2.100 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3636	-.2885	-.3596
.200	.0711	.0809	.0790
.410	.0138	.0118	-.0099
.590	-.0079	-.0237	-.0444
.770		-.0850	-.0923
.950	-.2381	-.2292	-.2006

BETA (2) = -5.020 ALPHA (3) = 4.150 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2819	-.2186	-.2859
.200	.1107	.1236	.1355
.410	.0583	.0573	.0395
.590	.0286	.0148	.0029
.770		-.0494	-.0464
.950	-.2038	-.1949	-.1652

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 215

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (2) = -5.020 ALPHA (4) = 6.220 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1753	-.1604	-.2040
.200	.1525	.1683	.1832
.410	.1010	.1029	.0970
.590	.0693	.0603	.0524
.770	-.0069	-.0049	
.950	-.1654	-.1575	-.1297

BETA (2) = -5.020 ALPHA (5) = 8.290 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0752	-.1030	-.1188
.200	.1901	.2021	.2200
.410	.1435	.1435	.1425
.590	.1089	.1039	.0960
.770		.0286	.0411
.950	-.1277	-.1218	-.0960

BETA (2) = -5.020 ALPHA (6) = 10.380 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0335	-.0484	-.0514
.200	.2305	.2384	.2642
.410	.1859	.1868	.1888
.590	.1472	.1423	.1443
.770		.0681	.0859
.950	-.0850	-.0850	-.0583

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 216

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (3) = .010 ALPHA (1) = .010 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6204	-.4885	-.6204
.200	-.0285	-.0039	-.0069
.410	-.0827	-.0719	-.0886
.590	-.1329	-.1113	-.1191
.770		-.1812	-.1725
.950	-.5751	-.3013	-.2738

BETA (3) = .010 ALPHA (2) = 2.090 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5651	-.4270	-.5434
.200	-.0029	.0344	.0384
.410	-.0493	-.0375	-.0414
.590	-.1203	-.0739	-.0749
.770		-.1440	-.1336
.950	-.5700	-.2653	-.2416

BETA (3) = .010 ALPHA (3) = 4.140 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4993	-.3628	-.4706
.200	.0266	.0691	.0800
.410	-.0178	-.0010	.0019
.590	-.1236	-.0375	-.0326
.770		-.1077	-.0890
.950	-.5210	-.2274	-.2046

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 217

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (3) = .010 ALPHA (4) = 6.200 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4146	-.3048	-.3978
.200	.0534	.0949	.1197
.410	.0158	.0346	.0385
.590	-.1563	.0019	.0118
.770		-.0702	-.0521
.950	-.4651	-.1890	-.1722

BETA (3) = .010 ALPHA (5) = 8.290 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3272	-.2481	-.3232
.200	.0840	.1215	.1502
.410	.0474	.0691	.0711
.590	-.1967	.0405	.0573
.770		-.0306	-.0139
.950	-.4340	-.1453	-.1285

BETA (3) = .010 ALPHA (6) = 10.370 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2191	-.2230	-.2250
.200	.1174	.1490	.1895
.410	.0611	.1016	.1085
.590	-.2289	.0779	.1055
.770		.0068	.0331
.950	-.4145	-.1036	-.0849

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 218

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (4) = 5.040 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7952	-.6650	-.7409
.200	-.1795	-.0907	-.0769
.410	-.4104	-.1667	-.1628
.590	-.5890	-.1934	-.1736
.770	-.3029	-.2276	
.950	-.6324	-.4844	-.3256

BETA (4) = 5.040 ALPHA (2) = 2.080 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7445	-.6140	-.6714
.200	-.1542	-.0613	-.0464
.410	-.4588	-.1345	-.1265
.590	-.5498	-.1532	-.1305
.770	-.2887	-.1956	
.950	-.6071	-.4914	-.2946

BETA (4) = 5.030 ALPHA (3) = 4.170 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7114	-.5778	-.6035
.200	-.1306	-.0376	-.0178
.410	-.5244	-.1019	-.0930
.590	-.5333	-.1187	-.0821
.770	-.2839	-.1598	
.950	-.5738	-.5085	-.2562

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 219

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (4) = 5.030 ALPHA (4) = 6.220 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6630	-.5240	-.5488
.200	-.1052	-.0268	.0000
.410	-.5846	-.0665	-.0506
.590	-.5290	-.0843	-.0377
.770		-.2868	-.1187
.950	-.5558	-.5359	-.2233

BETA (4) = 5.030 ALPHA (5) = 8.280 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6016	-.4747	-.4926
.200	-.0753	-.0168	.0098
.410	-.6313	-.0327	-.0079
.590	-.5312	-.0555	.0098
.770		-.3023	-.0780
.950	-.5600	-.5530	-.1853

BETA (4) = 5.030 ALPHA (6) = 10.350 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5355	-.4353	-.4304
.200	-.0466	-.0079	.0168
.410	-.6218	.0049	.0376
.590	-.5296	-.0287	.0525
.770		-.3391	-.0364
.950	-.5315	-.5782	-.1527

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 220

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (5) = 10.060 ALPHA (1) = .030 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8098	-.8504	-.9862
.200	-.3756	-.2260	-.2230
.410	-1.0675	-.2825	-.2299
.590	-.8494	-.4232	-.2428
.770	-.7949	-.3558	
.950	-.5907	-.8345	-.4450

BETA (5) = 10.060 ALPHA (2) = 2.090 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7287	-.7763	-.9032
.200	-.3747	-.2280	-.2062
.410	-1.0400	-.2528	-.1883
.590	-.8437	-.4352	-.2112
.770		-.8486	-.3356
.950	-.5681	-.8397	-.4342

BETA (5) = 10.060 ALPHA (3) = 4.150 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6711	-.7148	-.8071
.200	-.3862	-.2343	-.1886
.410	-1.0255	-.2224	-.1479
.590	-.8409	-.4517	-.1757
.770		-.9084	-.3192
.950	-.5420	-.8409	-.4279

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 221

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN22)

BETA (5) = 10.060 ALPHA (4) = 6.240 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6193	-.6461	-.7225
.200	-.3950	-.2372	-.1925
.410	-1.0302	-.1895	-.1052
.590	-.8634	-.4833	-.1409
.770		-.9627	-.3044
.950	-.5210	-.8356	-.4230

BETA (5) = 10.060 ALPHA (5) = 8.290 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5777	-.6045	-.6768
.200	-.4063	-.2338	-.1843
.410	-1.0504	-.1556	-.0713
.590	-.8958	-.5222	-.0991
.770		-.9979	-.2882
.950	-.4964	-.8106	-.4291

BETA (5) = 10.060 ALPHA (6) = 10.370 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5626	-.5735	-.6507
.200	-.4506	-.2298	-.1763
.410	-1.0756	-.1248	-.0267
.590	-.9191	-.5982	-.0614
.770		-1.0182	-.2746
.950	-.4695	-.7745	-.4269

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OA153 ORB NOSE GEAR DOOR OUTER SURFACE

(RFFN23) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 10.000
 BDFLAP = .000 SPDWRK = 25.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.040 ALPHA (1) = .110 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0218 .0247 .1298
 .200 .0346 .0485 .0703
 .410 -.0327 -.0189 -.0396
 .590 -.0525 -.0585 -.0832
 .770 -.1189 -.1365
 .950 -.2478 -.2517 -.2250

BETA (1) = -10.040 ALPHA (2) = 2.170 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0712 .0860 .1216
 .200 .0900 .1048 .1246
 .410 .0207 .0306 .0038
 .590 -.0039 -.0128 -.0346
 .770 -.0772 -.0880
 .950 -.2088 -.2147 -.1821

BETA (1) = -10.040 ALPHA (3) = 4.240 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1701 .1493 .1365
 .200 .1434 .1663 .1761
 .410 .0751 .0820 .0642
 .590 .0425 .0336 .0148
 .770 -.0336 -.0420
 .950 -.1721 -.1711 -.1395

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 223

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (1) = -10.040 ALPHA (4) = 6.300 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2638	.2131	.1644
.200	.2001	.2091	.2280
.410	.1297	.1337	.1198
.590	.0871	.0812	.0643
.770		.0078	.0062
.950	-.1337	-.1307	-.1030

BETA (1) = -10.040 ALPHA (5) = 8.370 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3492	.2647	.2041
.200	.2458	.2537	.2766
.410	.1792	.1862	.1752
.590	.1366	.1287	.1148
.770		.0494	.0523
.950	-.0960	-.0911	-.0663

BETA (1) = -10.040 ALPHA (6) = 10.450 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4191	.3328	.2306
.200	.2941	.2990	.3219
.410	.2315	.2345	.2246
.590	.1839	.1750	.1601
.770		.0949	.0982
.950	-.0544	-.0534	-.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 224

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (2) = -5.030 ALPHA (1) = .100 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4161	-.3606	-.4260
.200	.0316	.0336	.0217
.410	-.0267	-.0307	-.0604
.590	-.0446	-.0614	-.0872
.770		-.1208	-.1331
.950	-.2675	-.2615	-.2368

BETA (2) = -5.030 ALPHA (2) = 2.160 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3590	-.2878	-.3580
.200	.0741	.0830	.0810
.410	.0167	.0157	-.0069
.590	-.0069	-.0207	-.0415
.770		-.0831	-.0913
.950	-.2363	-.2255	-.1998

BETA (2) = -5.030 ALPHA (3) = 4.260 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2808	-.2195	-.2848
.200	.1136	.1265	.1354
.410	.0593	.0583	.0434
.590	.0326	.0197	.0039
.770		-.0474	-.0453
.950	-.2027	-.1938	-.1612

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 225

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (2) = -5.030 ALPHA (4) = 6.290 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1713	-.1575	-.2010
.200	.1534	.1693	.1862
.410	.1010	.1039	.0940
.590	.0712	.0613	.0544
.770		-.0049	-.0027
.950	-.1654	-.1545	-.1277

BETA (2) = -5.030 ALPHA (5) = 8.390 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0673	-.0980	-.1178
.200	.1920	.2069	.2218
.410	.1464	.1474	.1454
.590	.1108	.1029	.0999
.770		.0316	.0433
.950	-.1237	-.1187	-.0930

BETA (2) = -5.030 ALPHA (6) = 10.460 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0404	-.0464	-.0444
.200	.2301	.2380	.2668
.410	.1875	.1885	.1875
.590	.1470	.1460	.1470
.770		.0700	.0868
.950	-.0839	-.0819	-.0572

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 226

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (3) = -.010 ALPHA (1) = .090 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6156	-.4871	-.6136
.200	-.0276	.0019	-.0029
.410	-.0790	-.0691	-.0840
.590	-.1294	-.1097	-.1166
.770	-.1769	-.1697	
.950	-.5721	-.2974	-.2697

BETA (3) = -.010 ALPHA (2) = 2.160 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5569	-.4204	-.5411
.200	-.0010	.0365	.0425
.410	-.0494	-.0356	-.0376
.590	-.1187	-.0702	-.0712
.770		-.1414	-.1306
.950	-.5668	-.2611	-.2384

BETA (3) = -.010 ALPHA (3) = 4.220 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4940	-.3606	-.4634
.200	.0276	.0701	.0849
.410	-.0138	.0019	.0039
.590	-.1274	-.0346	-.0316
.770		-.1067	-.0923
.950	-.5158	-.2272	-.2045

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 227

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (3) = -.010 ALPHA (4) = 6.300 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4129	-.3020	-.3990
.200	.0554	.0970	.1188
.410	.0177	.0376	.0395
.590	-.1554	.0049	.0138
.770		-.0683	-.0499
.950	-.4624	-.1852	-.1683

BETA (3) = -.010 ALPHA (5) = 8.380 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3200	-.2449	-.3200
.200	.0868	.1244	.1530
.410	.0483	.0710	.0730
.590	-.1926	.0424	.0592
.770		-.0286	-.0116
.950	-.4326	-.1432	-.1274

BETA (3) = -.010 ALPHA (6) = 10.450 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2119	-.2218	-.2168
.200	.1168	.1504	.1891
.410	.0643	.1029	.1108
.590	-.2287	.0791	.1059
.770		.0088	.0354
.950	-.4109	-.1010	-.0831

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 228

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (4) = 5.030 ALPHA (1) = .110 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7817	-.6602	-.7402
.200	-.1759	-.0909	-.0741
.410	-.4052	-.1640	-.1611
.590	-.5841	-.1887	-.1710
.770		-.3004	-.2247
.950	-.6315	-.4843	-.3222

BETA (4) = 5.030 ALPHA (2) = 2.160 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7414	-.6129	-.6702
.200	-.1512	-.0603	-.0405
.410	-.4498	-.1334	-.1275
.590	-.5486	-.1522	-.1285
.770		-.2837	-.1933
.950	-.6050	-.4854	-.2916

BETA (4) = 5.030 ALPHA (3) = 4.210 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7114	-.5749	-.6075
.200	-.1256	-.0376	-.0168
.410	-.5145	-.1009	-.0920
.590	-.5274	-.1167	-.0811
.770		-.2780	-.1576
.950	-.5759	-.5106	-.2582

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 229

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (4) = 5.030 ALPHA (4) = 6.310 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6568	-.5221	-.5478
.200	-.1040	-.0267	.0000
.410	-.5855	-.0664	-.0485
.590	-.5320	-.0852	-.0356
.770	-.2863	-.1173	
.950	-.5607	-.5399	-.2209

BETA (4) = 5.040 ALPHA (5) = 8.380 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5996	-.4749	-.4937
.200	-.0762	-.0158	.0138
.410	-.6273	-.0297	-.0039
.590	-.5313	-.0534	.0098
.770		-.2968	-.0756
.950	-.5630	-.5501	-.1870

BETA (4) = 5.040 ALPHA (6) = 10.440 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5311	-.4381	-.4233
.200	-.0435	-.0059	.0207
.410	-.6161	.0059	.0424
.590	-.5261	-.0287	.0553
.770		-.3352	-.0352
.950	-.5281	-.5775	-.1483

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 230

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (5) = 10.060 ALPHA (1) = .120 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8019	-.8456	-.9796
.200	-.3722	-.2292	-.2223
.410	-1.0639	-.2818	-.2312
.590	-.8486	-.4178	-.2431
.770	-.7870	-.3595	
.950	-.5935	-.8377	-.4436

BETA (5) = 10.060 ALPHA (2) = 2.180 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7243	-.7728	-.8977
.200	-.3824	-.2308	-.2021
.410	-1.0404	-.2517	-.1982
.590	-.8402	-.4300	-.2110
.770	-.8462	-.3354	
.950	-.5658	-.8412	-.4350

BETA (5) = 10.060 ALPHA (3) = 4.240 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6645	-.7139	-.8019
.200	-.3886	-.2373	-.1859
.410	-1.0224	-.2195	-.1483
.590	-.8454	-.4519	-.1760
.770	-.9127	-.3190	
.950	-.5438	-.8474	-.4272

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 231

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN23)

BETA (5) = 10.060 ALPHA (4) = 6.320 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6134	-.6500	-.7233
.200	-.3993	-.2358	-.1892
.410	-1.0315	-.1853	-.1080
.590	-.8650	-.4826	-.1387
.770		-.9651	-.3017
.950	-.5172	-.8403	-.4261

BETA (5) = 10.060 ALPHA (5) = 8.360 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5734	-.6050	-.6773
.200	-.4159	-.2327	-.1852
.410	-1.0477	-.1525	-.0723
.590	-.8952	-.5337	-.1000
.770		-.9942	-.2869
.950	-.4941	-.8091	-.4268

BETA (5) = 10.060 ALPHA (6) = 10.450 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5551	-.5789	-.6541
.200	-.4562	-.2296	-.1761
.410	-1.0717	-.1197	-.0257
.590	-.9173	-.6026	-.0613
.770		-1.0193	-.2766
.950	-.4661	-.7719	-.4314

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = 10.000
 BDFLAP = -11.700 SPDBRK = 85.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.030 ALPHA (1) = .080 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0326 .0177 .1284
 .200 .0306 .0444 .0681
 .410 -.0356 -.0257 -.0454
 .590 -.0553 -.0632 -.0870
 .770 -.1216 -.1361
 .950 -.2501 -.2550 -.2283

BETA (1) = -10.030 ALPHA (2) = 2.140 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0682 .0761 .1177
 .200 .0870 .1008 .1216
 .410 .0158 .0266 .0059
 .590 -.0079 -.0148 -.0366
 .770 -.0801 -.0936
 .950 -.2156 -.2166 -.1879

BETA (1) = -10.040 ALPHA (3) = 4.190 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1609 .1342 .1273
 .200 .1412 .1520 .1708
 .410 .0691 .0780 .0582
 .590 .0384 .0296 .0138
 .770 -.0355 -.0430
 .950 -.1738 -.1768 -.1422

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 233

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (1) = -10.030 ALPHA (4) = 6.280 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2503	.1967	.1561
.200	.1927	.2026	.2235
.410	.1264	.1294	.1175
.590	.0859	.0770	.0622
.770		.0078	.0006
.950	-.1344	-.1334	-.1028

BETA (1) = -10.040 ALPHA (5) = 8.380 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3417	.2635	.2002
.200	.2457	.2516	.2754
.410	.1804	.1843	.1705
.590	.1380	.1261	.1123
.770		.0482	.0509
.950	-.0936	-.0917	-.0541

BETA (1) = -10.040 ALPHA (6) = 10.420 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4128	.3305	.2333
.200	.2948	.2998	.3176
.410	.2284	.2294	.2234
.590	.1828	.1748	.1590
.770		.0908	.0970
.950	-.0523	-.0504	-.0257

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (2) = -5.020 ALPHA (1) = .080 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4197	-.3654	-.4286
.200	.0296	.0325	.0187
.410	-.0296	-.0345	-.0642
.590	-.0454	-.0652	-.0899
.770		-.1224	-.1349
.950	-.2696	-.2627	-.2380

BETA (2) = -5.020 ALPHA (2) = 2.140 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3620	-.2938	-.3640
.200	.0702	.0791	.0761
.410	.0108	.0128	-.0109
.590	-.0118	-.0237	-.0465
.770		-.0870	-.0924
.950	-.2403	-.2314	-.2018

BETA (2) = -5.030 ALPHA (3) = 4.200 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2889	-.2236	-.2908
.200	.1097	.1246	.1345
.410	.0573	.0563	.0415
.590	.0286	.0177	.0029
.770		-.0475	-.0487
.950	-.2038	-.1949	-.1672

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 235

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (2) = -5.030 ALPHA (4) = 6.260 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1777	-.1619	-.2083
.200	.1500	.1668	.1817
.410	.0987	.1006	.0947
.590	.0681	.0572	.0503
.770	-.0089	-.0027	
.950	-.1669	-.1570	-.1313

BETA (2) = -5.030 ALPHA (5) = 8.330 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0711	-.1037	-.1205
.200	.1897	.2036	.2204
.410	.1442	.1422	.1412
.590	.1106	.1027	.0977
.770		.0315	.0421
.950	-.1284	-.1195	-.0938

BETA (2) = -5.030 ALPHA (6) = 10.420 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0355	-.0464	-.0524
.200	.2315	.2384	.2642
.410	.1868	.1858	.1858
.590	.1472	.1433	.1443
.770		.0672	.0881
.950	-.0860	-.0870	-.0563

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 236

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (3) = .010 ALPHA (1) = .070 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6206	-.4921	-.6196
.200	-.0296	-.0039	-.0089
.410	-.0840	-.0731	-.0869
.590	-.1324	-.1107	-.1166
.770		-.1779	-.1697
.950	-.5761	-.2994	-.2747

BETA (3) = .010 ALPHA (2) = 2.130 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5678	-.4266	-.5451
.200	-.0039	.0355	.0384
.410	-.0513	-.0385	-.0434
.590	-.1244	-.0750	-.0740
.770		-.1442	-.1315
.950	-.5728	-.2656	-.2429

BETA (3) = .000 ALPHA (3) = 4.180 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5017	-.3694	-.4701
.200	.0226	.0671	.0770
.410	-.0197	-.0020	.0000
.590	-.1323	-.0375	-.0326
.770		-.1096	-.0912
.950	-.5234	-.2271	-.2084

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 237

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (3) = .010 ALPHA (4) = 6.280 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4219	-.3063	-.4031
.200	.0503	.0938	.1165
.410	.0157	.0335	.0365
.590	-.1679	.0029	.0038
.770		-.0711	.0520
.950	-.4663	-.1877	-.1729

BETA (3) = .010 ALPHA (5) = 8.360 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3307	-.2478	-.3248
.200	.0809	.1204	.1500
.410	.0434	.0671	.0700
.590	-.2024	.0404	.0572
.770		-.0316	-.0116
.950	-.4343	-.1441	-.1303

BETA (3) = .000 ALPHA (6) = 10.420 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2224	-.2283	-.2214
.200	.1146	.1472	.1858
.410	.0583	.1008	.1067
.590	-.2372	.0800	.1047
.770		.0088	.0365
.950	-.4162	-.1038	-.0850

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 238

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (4) = 5.060 ALPHA (1) = .080 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7930	-.6695	-.7436
.200	-.1787	-.0889	-.0760
.410	-.4088	-.1679	-.1629
.590	-.5846	-.1876	-.1718
.770	-.3002	-.2256	
.950	-.6310	-.4770	-.3229

BETA (4) = 5.050 ALPHA (2) = 2.120 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7495	-.6211	-.6774
.200	-.1550	-.0602	-.0454
.410	-.4572	-.1363	-.1284
.590	-.5490	-.1540	-.1274
.770		-.2893	-.1965
.950	-.6073	-.4917	-.2942

BETA (4) = 5.050 ALPHA (3) = 4.200 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7171	-.5779	-.6045
.200	-.1314	-.0415	-.0197
.410	-.5216	-.1007	-.0938
.590	-.5324	-.1205	-.0800
.770		-.2855	-.1584
.950	-.5739	-.5127	-.2598

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 239

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (4) = 5.050 ALPHA (4) = 6.280 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6619	-.5315	-.5572
.200	-.1067	-.0296	-.0039
.410	-.5937	-.0701	-.0533
.590	-.5335	-.0869	-.0365
.770	-.2914	-.1204	
.950	-.5602	-.5424	-.2262

BETA (4) = 5.050 ALPHA (5) = 8.350 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6086	-.4839	-.4948
.200	-.0782	-.0188	.0069
.410	-.6373	-.0326	-.0089
.590	-.5374	-.0544	.0108
.770	-.3088	-.0756	
.950	-.5651	-.5611	-.1890

BETA (4) = 5.050 ALPHA (6) = 10.460 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5327	-.4368	-.4299
.200	-.0464	-.0079	.0157
.410	-.6176	.0029	.0414
.590	-.5287	-.0296	.0553
.770	-.3419	-.0352	
.950	-.5247	-.5850	-.1512

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 240

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (5) = 10.090 ALPHA (1) = .080 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8085	-.8511	-.9877
.200	-.3731	-.2236	-.2197
.410	-1.0688	-.2830	-.2345
.590	-.8501	-.4137	-.2424
.770	-.7897	-.3586	
.950	-.5948	-.8362	-.4473

BETA (5) = 10.090 ALPHA (2) = 2.150 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7390	-.7796	-.9092
.200	-.3730	-.2265	-.2028
.410	-1.0477	-.2513	-.1899
.590	-.8400	-.4284	-.2087
.770		-.8419	-.3405
.950	-.5679	-.8459	-.4363

BETA (5) = 10.090 ALPHA (3) = 4.230 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6732	-.7206	-.8135
.200	-.3984	-.2352	-.1858
.410	-1.0340	-.2204	-.1483
.590	-.8481	-.4507	-.1769
.770		-.9154	-.3223
.950	-.5466	-.8521	-.4310

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ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 241

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN24)

BETA (5) = 10.100 ALPHA (4) = 6.290 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6166	-.6591	-.7332
.200	-.4012	-.2421	-.1917
.410	-1.0346	-.1877	-.1107
.590	-.8666	-.4882	-.1413
.770	-.9704	-.3031	
.950	-.5227	-.8380	-.4298

BETA (5) = 10.100 ALPHA (5) = 8.360 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5803	-.6069	-.6780
.200	-.4224	-.2378	-.1895
.410	-1.0560	-.1569	-.0710
.590	-.9000	-.5398	-.1026
.770	-1.0056	-.2882	
.950	-.4974	-.8152	-.4303

BETA (5) = 10.090 ALPHA (6) = 10.430 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5564	-.5702	-.6473
.200	-.4536	-.2312	-.1789
.410	-1.0772	-.1245	-.0267
.590	-.9171	-.5979	-.0603
.770	-1.0160	-.2729	
.950	-.4665	-.7719	-.4309

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
 BDFLAP = 15.000 SPDBRK = 25.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.040 ALPHA (1) = .040 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0257 .0197 .1285
 .200 .0316 .0464 .0682
 .410 -.0366 -.0227 -.0435
 .590 -.0563 -.0633 -.0850
 .770 -.1206 -.1373
 .950 -.2502 -.2551 -.2255

BETA (1) = -10.030 ALPHA (2) = 2.120 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0673 .0822 .1189
 .200 .0901 .1030 .1248
 .410 .0197 .0297 .0079
 .590 -.0069 -.0148 -.0347
 .770 -.0793 -.0904
 .950 -.2140 -.2150 -.1863

BETA (1) = -10.040 ALPHA (3) = 4.160 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1593 .1414 .1335
 .200 .1444 .1543 .1761
 .410 .0712 .0811 .0642
 .590 .0425 .0306 .0148
 .770 -.0376 -.0453
 .950 -.1751 -.1741 -.1435

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 243

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (1) = -10.040 ALPHA (4) = 6.260 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2600	.2023	.1595
.200	.1953	.2053	.2281
.410	.1258	.1318	.1199
.590	.0882	.0792	.0654
.770	.0068	.0068	.0051
.950	-.1348	-.1328	-.1051

BETA (1) = -10.030 ALPHA (5) = 8.300 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3447	.2594	.1978
.200	.2455	.2544	.2752
.410	.1790	.1869	.1750
.590	.1364	.1265	.1117
.770	.0514	.0514	.0511
.950	-.0929	-.0900	-.0652

BETA (1) = -10.030 ALPHA (6) = 10.400 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4176	.3344	.2352
.200	.2927	.2977	.3225
.410	.2313	.2303	.2214
.590	.1827	.1718	.1619
.770	.0947	.0947	.0947
.950	-.0563	-.0503	-.0237

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 244

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (2) = -5.020 ALPHA (1) = .040 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4199	-.3654	-.4259
.200	.0316	.0326	.0197
.410	-.0297	-.0337	-.0614
.590	-.0465	-.0634	-.0891
.770	-.1228	-.1364	
.950	-.2694	-.2624	-.2387

BETA (2) = -5.020 ALPHA (2) = 2.090 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3615	-.2882	-.3605
.200	.0712	.0801	.0772
.410	.0128	.0128	-.0119
.590	-.0099	-.0247	-.0445
.770		-.0871	-.0937
.950	-.2397	-.2317	-.2020

BETA (2) = -5.020 ALPHA (3) = 4.150 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2828	-.2235	-.2848
.200	.1127	.1255	.1354
.410	.0563	.0583	.0434
.590	.0286	.0148	.0039
.770		-.0494	-.0498
.950	-.2047	-.1918	-.1661

C4

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 245

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (2) = -5.020 ALPHA (4) = 6.200 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1751	-.1583	-.2058
.200	.1513	.1662	.1811
.410	.0999	.0999	.0929
.590	.0682	.0613	.0504
.770	-.0109	-.0038	
.950	-.1672	-.1583	-.1296

BETA (2) = -5.020 ALPHA (5) = 8.300 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0772	-.1040	-.1268
.200	.1922	.2031	.2220
.410	.1426	.1436	.1426
.590	.1089	.1049	.0980
.770		.0306	.0399
.950	-.1258	-.1208	-.0931

BETA (2) = -5.030 ALPHA (6) = 10.360 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0286	-.0493	-.0464
.200	.2282	.2371	.2639
.410	.1876	.1876	.1856
.590	.1461	.1431	.1441
.770		.0690	.0846
.950	-.0859	-.0849	-.0602

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 246

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (3) = .000 ALPHA (1) = .010 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6179	-.4894	-.6229
.200	-.0306	-.0029	-.0069
.410	-.0850	-.0741	-.0880
.590	-.1335	-.1127	-.1196
.770		-.1819	-.1709
.950	-.5764	-.3006	-.2748

BETA (3) = .000 ALPHA (2) = 2.100 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5580	-.4276	-.5432
.200	-.0039	.0365	.0394
.410	-.0513	-.0345	-.0395
.590	-.1254	-.0731	-.0740
.770		-.1442	-.1338
.950	-.5688	-.2647	-.2400

BETA (3) = .000 ALPHA (3) = 4.200 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4950	-.3653	-.4653
.200	.0247	.0692	.0811
.410	-.0178	.0000	.0019
.590	-.1376	-.0327	-.0346
.770		-.1059	-.0914
.950	-.5188	-.2257	-.2069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 247

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (3) = .000 ALPHA (4) = 6.220 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4180	-.3043	-.4022
.200	.0513	.0958	.1165
.410	.0157	.0345	.0395
.590	-.1482	.0029	.0118
.770		-.0721	-.0531
.950	-.4684	-.1877	-.1699

BETA (3) = .000 ALPHA (5) = 8.280 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3275	-.2493	-.3236
.200	.0830	.1216	.1503
.410	.0454	.0662	.0702
.590	-.1979	.0395	.0563
.770		-.0316	-.0128
.950	-.4334	-.1484	-.1296

BETA (3) = .000 ALPHA (6) = 10.370 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2245	-.2225	-.2185
.200	.1166	.1473	.1889
.410	.0622	.0998	.1057
.590	-.2403	.0780	.1038
.770		.0068	.0354
.950	-.4183	-.1048	-.0860

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 248

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (4) = 5.020 ALPHA (1) = .030 Q(P5F) = 42.922 P0/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7347	-.6688	-.7422
.200	-.1803	-.0901	-.0743
.410	-.4191	-.1684	-.1655
.590	-.5935	-.1942	-.1744
.770		-.3062	-.2286
.950	-.6332	-.4875	-.3260

BETA (4) = 5.020 ALPHA (2) = 2.100 Q(P5F) = 42.922 P0/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7415	-.6199	-.6713
.200	-.1552	-.0603	-.0455
.410	-.4587	-.1354	-.1275
.590	-.5527	-.1562	-.1315
.770		-.2916	-.1967
.950	-.6061	-.4963	-.2936

BETA (4) = 5.020 ALPHA (3) = 4.150 Q(P5F) = 42.922 P0/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7145	-.5768	-.6125
.200	-.1318	-.0406	-.0168
.410	-.5233	-.1021	-.0941
.590	-.5342	-.1189	-.0842
.770		-.2804	-.1601
.950	-.5758	-.5133	-.2606

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ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 249

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (4) = 5.020 ALPHA (4) = 6.240 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6597	-.5264	-.5580
.200	-.1066	-.0286	.0009
.410	-.5916	-.0671	-.0543
.590	-.5333	-.0869	-.0405
.770		-.2903	-.1214
.950	-.5590	-.5333	-.2232

BETA (4) = 5.020 ALPHA (5) = 8.300 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6056	-.4817	-.4966
.200	-.0783	-.0158	.0079
.410	-.6403	-.0347	-.0079
.590	-.5372	-.0555	.0079
.770		-.3043	-.0791
.950	-.5640	-.5600	-.1883

BETA (4) = 5.020 ALPHA (6) = 10.360 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5376	-.4388	-.4338
.200	-.0464	-.0049	.0167
.410	-.6216	.0029	.0395
.590	-.5317	-.0276	.0523
.770		-.3409	-.0374
.950	-.5337	-.5791	-.1532

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 250

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (5) = 10.070 ALPHA (1) = .030 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8091	-.8527	-.9866
.200	-.3788	-.2251	-.2320
.410	-1.0679	-.2816	-.2350
.590	-.8458	-.4224	-.2459
.770		-.8002	-.3604
.950	-.5920	-.8349	-.4492

BETA (5) = 10.080 ALPHA (2) = 2.080 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7342	-.7788	-.9037
.200	-.3825	-.2279	-.2031
.410	-1.0493	-.2536	-.1912
.590	-.8432	-.4370	-.2130
.770		-.8492	-.3388
.950	-.5678	-.8442	-.4380

BETA (5) = 10.080 ALPHA (3) = 4.150 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6701	-.7186	-.8126
.200	-.3949	-.2375	-.1920
.410	-1.0314	-.2217	-.1494
.590	-.8483	-.4543	-.1781
.770		-.9106	-.3227
.950	-.5454	-.8473	-.4335

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 251

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN25)

BETA (5) = 10.070 ALPHA (4) = 6.220 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6126	-.6522	-.7294
.200	-.3949	-.2405	-.1870
.410	-1.0293	-.1880	-.1089
.590	-.8631	-.4820	-.1435
.770		-.9581	-.3047
.950	-.5196	-.8344	-.4256

BETA (5) = 10.070 ALPHA (5) = 8.300 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5795	-.6073	-.6806
.200	-.4151	-.2328	-.1842
.410	-1.0541	-.1595	-.0733
.590	-.8966	-.5369	-.1020
.770		-.9996	-.2915
.950	-.4963	-.8133	-.4280

BETA (5) = 10.070 ALPHA (6) = 10.380 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5588	-.5766	-.6497
.200	-.4433	-.2271	-.1757
.410	-1.0782	-.1244	-.0256
.590	-.9202	-.5944	-.0632
.770		-1.0229	-.2760
.950	-.4690	-.7770	-.4295

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 252

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = 10.000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = .030 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0267 .0197 .1336
.200 .0296 .0485 .0722
.410 -.0356 -.0228 -.0406
.590 -.0564 -.0634 -.0881
.770 -.1228 -.1375
.950 -.2525 -.2615 -.2337

BETA (1) = -10.080 ALPHA (2) = 2.090 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0564 .0782 .1179
.200 .0852 .1020 .1228
.410 .0148 .0267 .0118
.590 -.0069 -.0148 -.0406
.770 -.0803 -.0926
.950 -.2160 -.2200 -.1932

BETA (1) = -10.080 ALPHA (3) = 4.160 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1573 .1435 .1365
.200 .1395 .1533 .1791
.410 .0682 .0791 .0643
.590 .0375 .0286 .0118
.770 -.0356 -.0431
.950 -.1762 -.1781 -.1504

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 253

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (1) = -10.080 ALPHA (4) = 6.220 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2526	.1940	.1623
.200	.1930	.2050	.2288
.410	.1217	.1306	.1197
.590	.0851	.0771	.0623
.770		.0078	.0040
.950	-.1376	-.1366	-.1079

BETA (1) = -10.070 ALPHA (5) = 8.290 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3381	.2567	.1960
.200	.2447	.2527	.2775
.410	.1752	.1792	.1702
.590	.1316	.1217	.1098
.770		.0494	.0511
.950	-.0950	-.0950	-.0624

BETA (1) = -10.080 ALPHA (6) = 10.360 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4163	.3220	.2336
.200	.2932	.3022	.3250
.410	.2257	.2307	.2227
.590	.1790	.1711	.1582
.770		.0900	.0949
.950	-.0544	-.0524	-.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 254

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (2) = -5.050 ALPHA (1) = .030 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4238	-.3663	-.4346
.200	.0286	.0306	.0187
.410	-.0297	-.0336	-.0594
.590	-.0465	-.0614	-.0831
.770	-.1218	-.1352	
.950	-.2703	-.2683	-.2485

BETA (2) = -5.050 ALPHA (2) = 2.080 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3584	-.2871	-.3644
.200	.0702	.0831	.0772
.410	.0138	.0138	-.0089
.590	-.0069	-.0208	-.0366
.770		-.0841	-.0892
.950	-.2406	-.2337	-.2109

BETA (2) = -5.050 ALPHA (3) = 4.140 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2855	-.2240	-.2895
.200	.1090	.1229	.1298
.410	.0564	.0564	.0406
.590	.0307	.0217	.0079
.770		-.0476	-.0432
.950	-.2062	-.2003	-.1765

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 255

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (2) = -5.050 ALPHA (4) = 6.220 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1773	-.1595	-.2090
.200	.1515	.1693	.1823
.410	.1000	.0990	.0921
.590	.0683	.0614	.0564
.770		-.0089	-.0038
.950	-.1694	-.1644	-.1426

BETA (2) = -5.060 ALPHA (5) = 8.290 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0712	-.1019	-.1237
.200	.1880	.2039	.2198
.410	.1424	.1434	.1424
.590	.1107	.1048	.1008
.770		.0306	.0410
.950	-.1286	-.1256	-.1019

BETA (2) = -5.050 ALPHA (6) = 10.350 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0266	-.0484	-.0534
.200	.2286	.2375	.2653
.410	.1859	.1849	.1869
.590	.1463	.1443	.1463
.770		.0701	.0836
.950	-.0870	-.0900	-.0672

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 256

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (3) = -.020 ALPHA (1) = .020 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6183	-.4927	-.6213
.200	-.0316	-.0059	-.0148
.410	-.0841	-.0732	-.0851
.590	-.1325	-.1039	-.1019
.770	-.1751	-.1665	
.950	-.5659	-.3017	-.2760

BETA (3) = -.020 ALPHA (2) = 2.070 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5636	-.4309	-.5478
.200	-.0059	.0306	.0336
.410	-.0525	-.0376	-.0376
.590	-.1258	-.0663	-.0624
.770		-.1387	-.1285
.950	-.5616	-.2655	-.2427

BETA (3) = -.020 ALPHA (3) = 4.150 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5081	-.3704	-.4724
.200	.0207	.0633	.0752
.410	-.0198	-.0020	.0049
.590	-.1377	-.0317	-.0228
.770		-.1060	-.0892
.950	-.5071	-.2317	-.2109

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 257

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (3) = -.020 ALPHA (4) = 6.200 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4227	-.3069	-.4039
.200	.0484	.0910	.1088
.410	.0138	.0346	.0435
.590	-.1643	.0069	.0197
.770	-.0653	-.0521	
.950	-.4604	-.1891	-.1752

BETA (3) = -.020 ALPHA (5) = 8.290 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3304	-.2522	-.3294
.200	.0800	.1186	.1443
.410	.0434	.0682	.0771
.590	-.2107	.0425	.0632
.770	-.0326	-.0139	
.950	-.4323	-.1503	-.1355

BETA (3) = -.020 ALPHA (6) = 10.340 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1126	.0800	-.2273
.200	.0563	.1027	.1779
.410	-.2441	.2711	.1146
.590	-.4091	.0059	.1106
.770	-.1097	-.0206	
.950	.3733	-.2194	-.0999

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 258

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (4) = 5.020 ALPHA (1) = .020 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8118	-.6872	-.7555
.200	-.1918	-.1068	-.0959
.410	-.4242	-.1592	-.1463
.590	-.5765	-.1829	-.1532
.770		-.3045	-.2315
.950	-.6190	-.4914	-.3273

BETA (4) = 5.020 ALPHA (2) = 2.080 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7600	-.6313	-.6907
.200	-.1652	-.0742	-.0653
.410	-.4809	-.1326	-.1148
.590	-.5442	-.1474	-.1128
.770		-.2949	-.2003
.950	-.5957	-.5017	-.2988

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7235	-.5848	-.6185
.200	-.1377	-.0505	-.0337
.410	-.5392	-.0971	-.0822
.590	-.5293	-.1140	-.0694
.770		-.2884	-.1624
.950	-.5640	-.5184	-.2636

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 259

0A163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (4) = 5.020 ALPHA (4) = 6.200 Q(PSF) = 42.907 P0/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6761	-.5395	-.5612
.200	-.1128	-.0366	-.0138
.410	-.5969	-.0663	-.0425
.590	-.5266	-.0802	-.0237
.770		-.2910	-.1240
.950	-.5434	-.5424	-.2296

BETA (4) = 5.020 ALPHA (5) = 8.260 Q(PSF) = 42.907 P0/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6115	-.4906	-.5045
.200	-.0832	-.0228	.0009
.410	-.6422	-.0327	.0000
.590	-.5282	-.0525	.0207
.770		-.3102	-.0836
.950	-.5421	-.5649	-.1952

BETA (4) = 5.020 ALPHA (6) = 10.350 Q(PSF) = 42.907 P0/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5382	-.4462	-.4432
.200	-.0504	-.0109	.0128
.410	-.6243	.0019	.0464
.590	-.5234	-.0257	.0623
.770		-.3443	-.0442
.950	-.5145	-.5887	-.1573

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 260

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8080	-.8673	-1.0036
.200	-.3892	-.2459	-.2548
.410	-1.0836	-.2864	-.2341
.590	-.8416	-.4149	-.2232
.770		-.7912	-.3669
.950	-.5867	-.8278	-.4524

BETA (5) = 10.070 ALPHA (2) = 2.070 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7211	-.7815	-.9041
.200	-.3976	-.2532	-.2443
.410	-1.0644	-.2572	-.1919
.590	-.8290	-.4343	-.1879
.770		-.8428	-.3495
.950	-.5589	-.8210	-.4392

BETA (5) = 10.060 ALPHA (3) = 4.140 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6630	-.7205	-.8176
.200	-.4073	-.2636	-.2140
.410	-1.0446	-.2259	-.1447
.590	-.8236	-.4569	-.1556
.770		-.9088	-.3344
.950	-.5312	-.8176	-.4311

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 261

OA163 ORB

NOSE GEAR DOOR OUTER SURFACE

(RFFN26)

BETA (5) = 10.060 ALPHA (4) = 6.230 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6225	-.6602	-.7484
.200	-.4134	-.2577	-.2151
.410	-1.0488	-.1972	-.1090
.590	-.8406	-.4897	-.1229
.770		-.9586	-.3232
.950	-.5055	-.8029	-.4243

BETA (5) = 10.060 ALPHA (5) = 8.280 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5837	-.6154	-.6977
.200	-.4232	-.2567	-.2081
.410	-1.0604	-.1625	-.0733
.590	-.8741	-.5332	-.0803
.770		-.9821	-.3074
.950	-.4806	-.7700	-.4261

BETA (5) = 10.060 ALPHA (6) = 10.360 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5606	-.5804	-.6665
.200	-.4637	-.2511	-.2096
.410	-1.0907	-.1285	-.0287
.590	-.8998	-.6091	-.0376
.770		-.9938	-.3000
.950	-.4509	-.7218	-.4301

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 262

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = -11.700 SPDBRK = .000
PHI-N = 66.000 THETAN = 109.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.090 ALPHA (1) = .000 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0345 -.0009 .1129
.200 -.0139 -.0317 .0565
.410 -.0532 -.0424 -.0611
.590 -.0749 -.0828 -.1065
.770 -.1420 -.1555
.950 -.2743 -.2782 -.2506

BETA (1) = -10.090 ALPHA (2) = 2.070 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0613 .0633 .1117
.200 .0722 .0870 .1098
.410 .0000 .0089 -.0058
.590 -.0256 -.0335 -.0561
.770 -.0985 -.1073
.950 -.2364 -.2413 -.2108

BETA (1) = -10.090 ALPHA (3) = 4.150 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1495 .1228 .1149
.200 .1277 .1406 .1673
.410 .0535 .0634 .0495
.590 .0208 .0129 -.0029
.770 -.0532 -.0604
.950 -.1983 -.1983 -.1677

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 263

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (1) = -10.090 ALPHA (4) = 5.190 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1939	.1523	.1335
.200	.1563	.1691	.1929
.410	.0811	.0910	.0801
.590	.0465	.0396	.0208
.770		-.0315	-.0368
.950	-.1764	-.1784	-.1468

BETA (1) = -10.090 ALPHA (5) = 6.240 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2452	.1918	.1434
.200	.1819	.1958	.2205
.410	.1078	.1177	.1078
.590	.0722	.0643	.0484
.770		-.0088	-.0112
.950	-.1546	-.1556	-.1231

BETA (1) = -10.090 ALPHA (6) = 8.310 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3394	.2545	.1815
.200	.2338	.2456	.2674
.410	.1618	.1707	.1598
.590	.1204	.1115	.0967
.770		.0355	.0339
.950	-.1091	-.1091	-.0756

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 264

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (1) = -10.090 ALPHA (7) = 10.420 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4099	.3202	.2217
.200	.2857	.2926	.3182
.410	.2158	.2207	.2158
.590	.1695	.1606	.1488
.770		.0788	.0834
.950	-.0657	-.0638	-.0353

BETA (1) = -10.090 ALPHA (8) = 15.670 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4898	.4859	.3203
.200	.4080	.4070	.4268
.410	.3479	.3400	.3400
.590	.2858	.2760	.2720
.770		.1853	.2001
.950	.0375	.0434	.0700

BETA (1) = -10.090 ALPHA (9) = 20.910 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.5795	.5549	.4790
.200	.5085	.4957	.5066
.410	.4524	.4455	.4504
.590	.3883	.3834	.3834
.770		.2868	.3003
.950	.1193	.1321	.1567

REPRODUCIBILITY
ORIGINAL PAGE IS POOR

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 265

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4474	-.3843	-.4602
.200	.0109	.0158	.0020
.410	-.0473	-.0492	-.0768
.590	-.0630	-.0808	-.1015
.770		-.1399	-.1509
.950	-.2946	-.2907	-.2700

BETA (2) = -5.060 ALPHA (2) = 2.080 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3826	-.3078	-.3855
.200	.0533	.0671	.0622
.410	-.0019	-.0048	-.0226
.590	-.0236	-.0364	-.0541
.770		-.1013	-.1048
.950	-.2596	-.2557	-.2301

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3078	-.2429	-.3147
.200	.0957	.1106	.1175
.410	.0424	.0415	.0286
.590	.0138	.0040	-.0058
.770		-.0649	-.0624
.950	-.2262	-.2193	-.1947

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 266

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (2) = -5.060 ALPHA (4) = 5.200 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2581	-.2128	-.2748
.200	.1167	.1355	.1454
.410	.0643	.0643	.0554
.590	.0356	.0267	.0198
.770	-.0443	-.0368	
.950	-.2049	-.2009	-.1773

BETA (2) = -5.060 ALPHA (5) = 6.250 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2012	-.1776	-.2267
.200	.1360	.1557	.1685
.410	.0847	.0877	.0818
.590	.0562	.0473	.0434
.770	-.0235	-.0144	
.950	-.1855	-.1806	-.1580

BETA (2) = -5.060 ALPHA (6) = 8.310 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0865	-.1180	-.1397
.200	.1768	.1945	.2123
.410	.1313	.1323	.1294
.590	.0968	.0928	.0879
.770		.0158	.0273
.950	-.1436	-.1416	-.1200

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 267

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (2) = -5.070 ALPHA (7) = 10.410 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0129	-.0621	-.0612
.200	.2199	.2318	.2566
.410	.1753	.1763	.1783
.590	.1347	.1367	.1387
.770		.0585	.0739
.950	-.1006	-.1046	-.0789

BETA (2) = -5.070 ALPHA (8) = 15.670 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3857	.0888	.1144
.200	.3137	.3137	.3531
.410	.2703	.2762	.2900
.590	.2249	.2367	.2565
.770		.1558	.1783
.950	-.0452	.0039	.0247

BETA (2) = -5.070 ALPHA (9) = 20.940 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4269	.3600	.1908
.200	.3944	.3866	.4112
.410	.3541	.3698	.3915
.590	.3118	.3344	.3462
.770		.2518	.2569
.950	-.1215	.1210	.1475

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 268

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (3) = -2.030 ALPHA (1) = .000 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5698	-.4554	-.5875
.200	-.0177	.0010	-.0088
.410	-.0719	-.0680	-.0926
.590	-.0976	-.1005	-.1143
.770		-.1695	-.1666
.950	-.3706	-.3095	-.2770

- - BETA (3) = -2.030 ALPHA (2) = 2.090 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5102	-.3881	-.5014
.200	.0178	.0435	.0445
.410	-.0354	-.0285	-.0384
.590	-.0630	-.0640	-.0640
.770		-.1339	-.1262
.950	-.4048	-.2748	-.2472

BETA (3) = -2.030 ALPHA (3) = 4.140 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4377	-.3256	-.4259
.200	.0494	.0800	.0889
.410	.0010	.0109	.0089
.590	-.0314	-.0216	-.0196
.770		-.0993	-.0981
.950	-.4377	-.2400	-.2154

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 269

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (3) = -2.030 ALPHA (4) = 5.200 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3900	-.2937	-.3910
.200	.0661	.0976	.1094
.410	.0217	.0316	.0316
.590	-.0137	-.0029	.0020
.770		-.0805	-.0668
.950	-.4568	-.2190	-.1955

BETA (3) = -2.030 ALPHA (5) = 6.230 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3412	-.2685	-.3530
.200	.0829	.1145	.1303
.410	.0375	.0513	.0533
.590	-.0029	.0178	.0237
.770		-.0619	-.0457
.950	-.4632	-.1986	-.1770

BETA (3) = -2.030 ALPHA (6) = 8.320 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2398	-.2034	-.2762
.200	.1184	.1450	.1697
.410	.0770	.0937	.0987
.590	.0266	.0572	.0710
.770		-.0196	-.0012
.950	-.4581	-.1582	-.1376

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 270

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (3) = -2.030 ALPHA (7) = 10.410 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1407	-.1535	-.1998
.200	.1521	.1788	.2085
.410	.1136	.1324	.1393
.590	.0316	.0998	.1186
.770		.0188	.0428
.950	-.4301	-.1141	-.0935

BETA (3) = -2.030 ALPHA (8) = 15.660 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2527	-.0875	.0099
.200	.2281	.2399	.2794
.410	.1955	.2182	.2488
.590	-.0383	.1984	.2409
.770		.1244	.1553
.950	-.2980	.0099	.0237

BETA (3) = -2.040 ALPHA (9) = 20.930 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3119	.0945	.0836
.200	.2991	.3001	.3365
.410	.1604	.3050	.3562
.590	-.0696	.2942	.3503
.770		.2411	.2614
.950	-.2019	.1427	.1466

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 271

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN27)

BETA (4) = -.030 ALPHA (1) = -.020 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6482	-.5171	-.6501
.200	-.0522	-.0216	-.0275
.410	-.1044	-.0906	-.1004
.590	-.1566	-.1221	-.1192
.770	-.1980	-.1855	
.950	-.6038	-.3241	-.2965

BETA (4) = -.030 ALPHA (2) = 2.070 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5919	-.4501	-.5722
.200	-.0256	.0138	.0188
.410	-.0699	-.0541	-.0522
.590	-.1497	-.0856	-.0768
.770	-.1595	-.1463	
.950	-.5870	-.2876	-.2639

BETA (4) = -.030 ALPHA (3) = 4.150 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5266	-.3871	-.4922
.200	.0039	.0483	.0582
.410	-.0343	-.0157	-.0068
.590	-.1650	-.0452	-.0363
.770	-.1218	-.1058	
.950	-.5266	-.2456	-.2289

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 272

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (4) = -.030 ALPHA (4) = 5.220 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4805	-.3616	-.4598
.200	.0168	.0602	.0799
.410	-.0216	.0020	.0099
.590	-.1896	-.0275	-.0127
.770		-.1051	-.0835
.950	-.5050	-.2279	-.2073

BETA (4) = -.030 ALPHA (5) = 6.230 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4416	-.3295	-.4219
.200	.0316	.0740	.0958
.410	-.0038	.0207	.0306
.590	-.2065	-.0088	.0069
.770		-.0836	-.0635
.950	-.4819	-.2055	-.1927

BETA (4) = -.030 ALPHA (5) = 8.310 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3523	-.2745	-.3365
.200	.0662	.1047	.1323
.410	.0207	.0563	.0642
.590	-.2489	.0286	.0514
.770		-.0442	-.0234
.950	-.4526	-.1633	-.1486

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 273

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (4) = -.030 ALPHA (7) = 10.410 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2391	-.2529	-.2361
.200	.0978	.1284	.1630
.410	.0247	.0889	.1067
.590	-.2853	.0701	.1027
.770		-.0029	.0251
.950	-.4359	-.1210	-.1013

BETA (4) = -.030 ALPHA (8) = 15.650 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1175	-.1770	-.0659
.200	.1718	.1816	.2231
.410	-.0767	.1806	.2251
.590	-.2596	.1757	.2122
.770		.1046	.1255
.950	-.3599	-.0452	.0168

BETA (4) = -.040 ALPHA (9) = 20.950 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2252	-.0725	.0010
.200	.2586	.2390	.2803
.410	-.1705	.2773	.3147
.590	-.2087	.2911	.3285
.770		.1839	.2469
.950	-.2567	-.0793	.1377

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 274

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (5) = 1.990 ALPHA (1) = .000 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7224	-.5877	-.7027
.200	-.1022	-.0530	-.0560
.410	-.1671	-.1189	-.1209
.590	-.3430	-.1484	-.1395
.770		-.2270	-.2051
.950	-.6428	-.3518	-.3204

BETA (5) = 1.990 ALPHA (2) = 2.100 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6610	-.5215	-.6325
.200	-.0726	-.0206	-.0088
.410	-.1522	-.0834	-.0746
.590	-.3869	-.1080	-.0942
.770		-.1856	-.1660
.950	-.6020	-.3162	-.2828

BETA (5) = 1.990 ALPHA (3) = 4.150 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6033	-.4626	-.5581
.200	-.0472	.0049	.0237
.410	-.1397	-.0511	-.0393
.590	-.4173	-.0728	-.0551
.770		-.1545	-.1272
.950	-.5709	-.2884	-.2500

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 275

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (5) = 1.990 ALPHA (4) = 5.190 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5741	-.4318	-.5123
.200	-.0323	.0197	.0404
.410	-.1452	-.0343	-.0225
.590	-.4249	-.0520	-.0304
.770	-.1354	-.1057	
.950	-.5535	-.2738	-.2296

BETA (5) = 1.990 ALPHA (5) = 6.270 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5385	-.4088	-.4668
.200	-.0186	.0345	.0572
.410	-.1552	-.0205	-.0068
.590	-.4156	-.0344	-.0078
.770	-.1189	-.0836	
.950	-.5395	-.2604	-.2053

BETA (5) = 1.990 ALPHA (6) = 8.320 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4584	-.3717	-.3865
.200	.0069	.0534	.0821
.410	-.2129	.0129	.0317
.590	-.3855	.0010	.0416
.770	-.0838	-.0391	
.950	-.5294	-.2425	-.1636

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 276

OA163 ORB+CP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (5) = 1.990 ALPHA (7) = 10.400 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3629	-.3274	-.3254
.200	.0346	.0673	.0940
.410	-.2722	.0485	.0772
.590	-.3580	.0445	.0851
.770		-.0562	.0042
.950	-.5069	-.2465	-.1203

BETA (5) = 1.990 ALPHA (8) = 15.670 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0335	-.2602	-.1616
.200	.1197	.1138	.1672
.410	-.4051	.1474	.2028
.590	-.3509	.1504	.1870
.770		-.0345	.1147
.950	-.4170	-.3233	-.0019

BETA (5) = 1.990 ALPHA (9) = 20.920 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1189	-.2076	-.1057
.200	.1858	.1720	.2182
.410	-.3192	.2516	.2880
.590	-.2928	.2162	.3027
.770		-.1811	.2281
.950	-.2742	-.3643	.1062

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 277

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN27)

BETA (6) = 5.020 ALPHA (1) = .000 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8379	-.7149	-.7858
.200	-.2144	-.1239	-.1140
.410	-.4592	-.1789	-.1632
.590	-.6058	-.2026	-.1711
.770	-.3334	-.2510	
.950	-.6490	-.5232	-.3550

BETA (6) = 5.010 ALPHA (2) = 2.060 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7947	-.6599	-.7072
.200	-.1859	-.0914	-.0796
.410	-.5222	-.1475	-.1318
.590	-.5744	-.1652	-.1288
.770	-.3137	-.2175	
.950	-.6186	-.5360	-.3177

BETA (6) = 5.010 ALPHA (3) = 4.160 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7513	-.6120	-.6366
.200	-.1569	-.0696	-.0480
.410	-.5895	-.1137	-.0961
.590	-.5581	-.1294	-.0824
.770	-.3158	-.1758	
.950	-.5826	-.5532	-.2834

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 278

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (6) = 5.010 ALPHA (4) = 5.210 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7247	-.5825	-.6109
.200	-.1461	-.0608	-.0362
.410	-.6148	-.0961	-.0745
.590	-.5560	-.1137	-.0578
.770		-.3157	-.1568
.950	-.5668	-.5648	-.2657

BETA (6) = 5.020 ALPHA (5) = 6.250 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6905	-.5560	-.5795
.200	-.1296	-.0540	-.0314
.410	-.6365	-.0785	-.0550
.590	-.5599	-.0982	-.0353
.770		-.3251	-.1381
.950	-.5619	-.5795	-.2455

BETA (6) = 5.010 ALPHA (6) = 8.320 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6326	-.5104	-.5232
.200	-.0975	-.0433	-.0177
.410	-.6780	-.0463	-.0128
.590	-.5617	-.0699	.0099
.770		-.3528	-.0961
.950	-.5597	-.6021	-.2108

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 279

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (6) = 5.010 ALPHA (7) = 10.410 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5617	-.4710	-.4700
.200	-.0689	-.0325	-.0068
.410	-.6464	-.0078	.0376
.590	-.5607	-.0492	.0534
.770		-.3932	-.0592
.950	-.5203	-.6257	-.1754

BETA (6) = 5.010 ALPHA (8) = 15.660 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3407	-.3811	-.3220
.200	-.0423	-.0009	.0524
.410	-.6165	.0979	.1542
.590	-.5367	-.0659	.1542
.770		-.6056	.0439
.950	-.3781	-.6559	-.1093

BETA (6) = 5.010 ALPHA (9) = 20.940 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0638	-.4339	-.3239
.200	-.2503	.0660	.1429
.410	-.6164	.1941	.2502
.590	-.4702	-.2680	.2522
.770		-.7225	.1197
.950	-.2365	-.5085	-.0922

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 280

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (7) = 10.070 ALPHA (1) = .010 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8206	-.8855	-1.0299
.200	-.4235	-.2712	-.2909
.410	-1.1292	-.3115	-.2535
.590	-.8766	-.4550	-.2437
.770	-.8403	-.3913	
.950	-.6122	-.8599	-.4796

BETA (7) = 10.070 ALPHA (2) = 2.080 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7433	-.8123	-.9335
.200	-.4377	-.2918	-.2720
.410	-1.1090	-.2829	-.2139
.590	-.8685	-.4722	-.2109
.770	-.9000	-.3735	
.950	-.5836	-.8626	-.4702

BETA (7) = 10.070 ALPHA (3) = 4.170 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6884	-.7445	-.8420
.200	-.4500	-.2974	-.2560
.410	-1.0951	-.2501	-.1654
.590	-.8656	-.4953	-.1733
.770	-.9621	-.3586	
.950	-.5544	-.8489	-.4569

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 281

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN27)

BETA (7) = 10.070 ALPHA (4) = 5.230 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6651	-.7114	-.7991
.200	-.4542	-.2956	-.2453
.410	-1.0868	-.2325	-.1478
.590	-.8750	-.5124	-.1576
.770	-.9853	-.3532	
.950	-.5380	-.8385	-.4562

BETA (7) = 10.070 ALPHA (5) = 6.250 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6394	-.6807	-.7722
.200	-.4623	-.2941	-.2459
.410	-1.0939	-.2144	-.1288
.590	-.8775	-.5440	-.1406
.770	-.9975	-.3482	
.950	-.5243	-.8224	-.4564

BETA (7) = 10.070 ALPHA (6) = 8.330 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6077	-.6392	-.7238
.200	-.4720	-.2861	-.2389
.410	-1.1152	-.1858	-.0885
.590	-.9047	-.5900	-.0983
.770	-.10237	-.3369	
.950	-.4936	-.7867	-.4543

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 282

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN27)

BETA (7) = 10.070 ALPHA (7) = 10.410 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5858	-.5976	-.6982
.200	-.5286	-.2761	-.2357
.410	-1.1420	-.1508	-.0443
.590	-.9388	-.6607	-.0572
.770		-1.0325	.3356
.950	-.4605	-.7317	-.4674

BETA (7) = 10.070 ALPHA (8) = 15.690 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5780	-.5800	-.6391
.200	-.8597	-.2373	-.1674
.410	-1.1926	-.1004	.0929
.590	-.8843	-.8991	.0208
.770		-.9227	-.3631
.950	-.3427	-.5327	-.5278

BETA (7) = 10.070 ALPHA (9) = 20.930 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4572	-.9330	-.7665
.200	-1.6711	-.0881	.0432
.410	-1.1483	-.2525	.1631
.590	-.7548	-1.0191	.0314
.770		-.6716	-.5075
.950	-.2447	-.3103	-.5766

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 283

OA163 ORB+6P NOSE GEAR DOOR OUTER SURFACE

(RFFN28) (20 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BOFLAP = -11.700 SPDBRK = 85.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = -.010 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0353 .0089 .1164
.200 .0069 .0286 .0533
.410 -.0580 -.0452 -.0619
.590 -.0796 -.0875 -.1110
.770 -.1464 -.1572
.950 -.2772 -.2870 -.2546

BETA (1) = -10.080 ALPHA (2) = 2.060 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0493 .0631 .1025
.200 .0670 .0828 .1084
.410 -.0029 .0079 -.0058
.590 -.0294 -.0353 -.0559
.770 -.1011 -.1125
.950 -.2406 -.2455 -.2150

BETA (1) = -10.080 ALPHA (3) = 4.150 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1474 .1238 .1149
.200 .1228 .1375 .1621
.410 .0511 .0609 .0481
.590 .0187 .0108 -.0078
.770 -.0567 -.0644
.950 -.1987 -.2016 -.1713

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 284

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (1) = -10.080 ALPHA (4) = 6.230 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2399	.1858	.1367
.200	.1780	.1908	.2144
.410	.1042	.1111	.1072
.590	.0678	.0600	.0433
.770		-.0097	-.0144
.950	-.1567	-.1567	-.1254

BETA (1) = -10.080 ALPHA (5) = 8.340 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3324	.2478	.1829
.200	.2311	.2429	.2646
.410	.1623	.1652	.1544
.590	.1161	.1072	.0934
.770		.0315	.0338
.950	-.1136	-.1107	-.0764

BETA (1) = -10.080 ALPHA (6) = 10.430 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4085	.3081	.2195
.200	.2845	.2914	.3150
.410	.2146	.2195	.2116
.590	.1663	.1595	.1457
.770		.0797	.0778
.950	-.0686	-.0657	-.0372

REPRODUCED
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 285

0A163 ORB+OP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (1) = -10.080 ALPHA (7) = 15.630 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4904	.4717	.3197
.200	.4046	.4056	.4253
.410	.3444	.3385	.3394
.590	.2872	.2723	.2684
.770	.1855	.1938	
.950	.0306	.0424	.0691

BETA (1) = -10.090 ALPHA (8) = 20.920 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.5738	.5532	.4845
.200	.5051	.4924	.5081
.410	.4502	.4424	.4522
.590	.3845	.3796	.3816
.770	.2845	.3022	
.950	.1167	.1305	.1569

BETA (2) = -5.050 ALPHA (1) = -.030 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4475	-.3906	-.4593
.200	.0069	.0108	-.0009
.410	-.0500	-.0539	-.0804
.590	-.0657	-.0824	-.1050
.770		-.1442	-.1525
.950	-.2954	-.2924	-.2708

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 286

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (2) = -5.050 ALPHA (2) = 2.070 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3881	-.3116	-.3881
.200	.0511	.0639	.0600
.410	-.0028	-.0038	-.0235
.590	-.0254	-.0382	-.0558
.770	-.1038	-.1078	
.950	-.2636	-.2548	-.2312

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3054	-.2466	-.3142
.200	.0933	.1071	.1169
.410	.0403	.0383	.0246
.590	.0128	.0030	-.0078
.770	-.0646	-.0610	
.950	-.2271	-.2192	-.1957

BETA (2) = -5.060 ALPHA (4) = 6.260 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1993	-.1826	-.2315
.200	.1353	.1539	.1667
.410	.0843	.0853	.0794
.590	.0549	.0480	.0402
.770	-.0254	-.0144	
.950	-.1846	-.1817	-.1582

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 287

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (2) = -5.050 ALPHA (5) = 8.310 Q(PSF) = 43.334 P0/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0921	-.1205	-.1450
.200	.1771	.1928	.2056
.410	.1299	.1299	.1269
.590	.0935	.0905	.0876
.770		.0138	.0239
.950	-.1431	-.1421	-.1205

BETA (2) = -5.060 ALPHA (6) = 10.450 Q(PSF) = 43.334 P0/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0187	-.0618	-.0648
.200	.2188	.2297	.2533
.410	.1755	.1765	.1774
.590	.1341	.1351	.1370
.770		.0591	.0702
.950	-.1001	-.1021	-.0766

BETA (2) = -5.060 ALPHA (7) = 15.700 Q(PSF) = 43.334 P0/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3788	.0827	.1092
.200	.3149	.3159	.3483
.410	.2686	.2726	.2854
.590	.2214	.2312	.2539
.770		.1574	.1789
.950	-.0431	.0020	.0236

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 288

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (2) = -5.060 ALPHA (8) = 20.910 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4275	.3595	.1871
.200	.3881	.3822	.4098
.410	.3546	.3674	.3891
.590	.3103	.3329	.3438
.770		.2522	.2627
.950	-.1187	.1182	.1458

BETA (3) = -2.020 ALPHA (1) = -.020 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5716	-.4596	-.5873
.200	-.0157	.0010	-.0137
.410	-.0736	-.0687	-.0933
.590	-.0982	-.1031	-.1149
.770		-.1699	-.1682
.950	-.3543	-.3074	-.2789

BETA (3) = -2.010 ALPHA (2) = 2.080 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5114	-.3865	-.5035
.200	.0168	.0405	.0415
.410	-.0363	-.0295	-.0413
.590	-.0639	-.0639	-.0668
.770		-.1357	-.1249
.950	-.3875	-.2753	-.2468

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 289

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (3) = -2.020 ALPHA (3) = 4.130 Q(PSF) = 43.248 P0/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4359	-.3299	-.4290
.200	.0473	.0788	.0847
.410	.0010	.0089	.0069
.590	-.0324	-.0235	-.0225
.770		-.0991	-.0879
.950	-.4241	-.2395	-.2140

BETA (3) = -2.020 ALPHA (4) = 5.180 Q(PSF) = 43.248 P0/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3922	-.2998	-.3912
.200	.0641	.0957	.1065
.410	.0178	.0306	.0316
.590	-.0147	-.0029	.0010
.770		-.0796	-.0646
.950	-.4472	-.2201	-.1975

BETA (3) = -2.010 ALPHA (5) = 6.230 Q(PSF) = 43.248 P0/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3407	-.2690	-.3534
.200	.0798	.1114	.1271
.410	.0374	.0512	.0542
.590	.0020	.0168	.0217
.770		-.0608	-.0445
.950	-.4634	-.2022	-.1787

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 290

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (3) = -2.010 ALPHA (6) = 8.310 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2408	-.2093	-.2761
.200	.1184	.1460	.1706
.410	.0769	.0917	.0977
.590	.0296	.0582	.0710
.770		-.0216	.0009
.950	-.4550	-.1592	-.1376

BETA (3) = -2.010 ALPHA (7) = 10.380 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1387	-.1554	-.1987
.200	.1501	.1738	.2104
.410	.1136	.1323	.1393
.590	.0336	.0948	.1175
.770		.0168	.0384
.950	-.4320	-.1141	-.0964

BETA (3) = -2.010 ALPHA (8) = 15.690 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2540	-.0873	.0098
.200	.2284	.2402	.2806
.410	.1959	.2196	.2471
.590	-.0343	.1959	.2393
.770		.1260	.1592
.950	-.2972	.0138	.0246

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 291

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (3) = -2.020 ALPHA (9) = 20.950 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3164	.0953	.0894
.200	.2997	.3017	.3361
.410	.1631	.3066	.3547
.590	-.0665	.2977	.3508
.770		.2398	.2621
.950	-.1997	.1454	.1494

BETA (4) = -.010 ALPHA (1) = -.020 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6475	-.5139	-.6475
.200	-.0530	-.0265	-.0304
.410	-.1031	-.0923	-.1031
.590	-.1572	-.1218	-.1228
.770		-.1955	-.1872
.950	-.6052	-.3232	-.2996

BETA (4) = -.010 ALPHA (2) = 2.070 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5930	-.4504	-.5704
.200	-.0275	.0109	.0148
.410	-.0698	-.0560	-.0550
.590	-.1524	-.0836	-.0796
.770		-.1593	-.1461
.950	-.5871	-.2881	-.2665

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA153 (NAAL-751)

PAGE 292

OA153 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (4) = -.010 ALPHA (3) = 4.140 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5283	-.3918	-.4949
.200	.0010	.0463	.0562
.410	-.0383	-.0176	-.0098
.590	-.1630	-.0491	-.0402
.770	-.1217	-.1058	
.950	-.5312	-.2484	-.2327

BETA (4) = -.010 ALPHA (4) = 5.190 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4903	-.3645	-.4578
.200	.0168	.0602	.0769
.410	-.0186	.0010	.0089
.590	-.1857	-.0285	-.0186
.770	-.1021	-.0847	
.950	-.5040	-.2279	-.2122

BETA (4) = -.010 ALPHA (5) = 6.240 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4438	-.3356	-.4281
.200	.0326	.0741	.0958
.410	-.0038	.0188	.0277
.590	-.2066	-.0088	.0069
.770	-.0826	-.0647	
.950	-.4822	-.2066	-.1929

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 293

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (4) = -.010 ALPHA (6) = 8.310 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3525	-.2749	-.3378
.200	.0641	.1045	.1301
.410	.0237	.0562	.0660
.590	-.2435	.0296	.0493
.770	-.0432	-.0222	
.950	-.4507	-.1630	-.1482

BETA (4) = -.010 ALPHA (7) = 10.400 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2450	-.2549	-.2381
.200	.0978	.1294	.1630
.410	.0237	.0869	.1057
.590	-.2864	.0691	.1017
.770	-.0019	.0218	
.950	-.4340	-.1210	-.1013

BETA (4) = -.010 ALPHA (8) = 15.640 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1109	-.1750	-.0684
.200	.1679	.1816	.2209
.410	-.0743	.1787	.2209
.590	-.2572	.1757	.2101
.770		.0972	.1237
.950	-.3570	-.0450	.0137

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 294

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (4) = -.010 ALPHA (9) = 20.930 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2263	-.0686	.0030
.200	.2578	.2381	.2794
.410	-.1627	.2774	.3138
.590	-.2029	.2912	.3247
.770		.1800	.2460
.950	-.2568	-.0901	.1377

BETA (5) = 2.000 ALPHA (1) = .000 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7261	-.5864	-.7064
.200	-.1023	-.0560	-.0531
.410	-.1672	-.1210	-.1170
.590	-.3483	-.1495	-.1377
.770		-.2243	-.2020
.950	-.6385	-.3492	-.3217

BETA (5) = 2.000 ALPHA (2) = 2.070 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6669	-.5265	-.6296
.200	-.0746	-.0235	-.0127
.410	-.1502	-.0874	-.0766
.590	-.3821	-.1119	-.1002
.770		-.1876	-.1671
.950	-.6041	-.3143	-.2858

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-75!)

PAGE 295

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (5) = 2.000 ALPHA (3) = 4.160 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6050	-.4628	-.5618
.200	-.0490	.0039	.0217
.410	-.1412	-.0509	-.0411
.590	-.4197	-.0725	-.0559
.770		-.1539	-.1245
.950	-.5677	-.2853	-.2490

BETA (5) = 2.000 ALPHA (4) = 5.180 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5789	-.4393	-.5199
.200	-.0334	.0197	.0414
.410	-.1464	-.0353	-.0226
.590	-.4285	-.0540	-.0363
.770		-.1366	-.1081
.950	-.5524	-.2712	-.2300

BETA (5) = 2.000 ALPHA (5) = 6.230 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5460	-.4134	-.4684
.200	-.0206	.0335	.0552
.410	-.1473	-.0196	-.0078
.590	-.4163	-.0363	-.0117
.770		-.1188	-.0880
.950	-.5410	-.2572	-.2081

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 296

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN28)

BETA (5) = 2.000 ALPHA (6) = 8.330 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4667	-.3752	-.3889
.200	.0059	.0524	.0810
.410	-.2028	.0129	.0297
.590	-.3870	.0030	.0385
.770		-.0866	-.0379
.950	-.5239	-.2471	-.1634

BETA (5) = 2.000 ALPHA (7) = 10.420 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3633	-.3270	-.3201
.200	.0315	.0700	.0936
.410	-.2818	.0503	.0749
.590	-.3525	.0444	.0887
.770		-.0530	.0020
.950	-.5028	-.2504	-.1188

BETA (5) = 2.000 ALPHA (8) = 15.680 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0352	-.2552	-.1623
.200	.1197	.1129	.1639
.410	-.3960	.1482	.1973
.590	-.3491	.1521	.1865
.770		-.0420	.1138
.950	-.4146	-.3178	-.0019

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 297

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN28)

BETA (5) = 2.000 ALPHA (9) = 20.960 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1188	-.2112	-.1046
.200	.1787	.1698	.2189
.410	-.3208	.2503	.2857
.590	-.2856	.2160	.2984
.770		-.1623	.2279
.950	-.2709	-.3609	.1031

BETA (6) = 5.030 ALPHA (1) = .000 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8437	-.7124	-.7878
.200	-.2146	-.1225	-.1156
.410	-.4586	-.1812	-.1656
.590	-.6065	-.2008	-.1714
.770		-.3292	-.2523
.950	-.6457	-.5144	-.3508

BETA (6) = 5.030 ALPHA (2) = 2.110 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7889	-.6558	-.7057
.200	-.1850	-.0900	-.0812
.410	-.5158	-.1468	-.1311
.590	-.5677	-.1644	-.1282
.770		-.3181	-.2154
.950	-.6186	-.5295	-.3191

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 298

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (6) = 5.030 ALPHA (3) = 4.110 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7555	-.6105	-.6438
.200	-.1607	-.0705	-.0519
.410	-.5811	-.1156	-.0970
.590	-.5527	-.1303	-.0833
.770		-.3136	-.1767
.950	-.5831	-.5517	-.2832

BETA (6) = 5.030 ALPHA (4) = 5.190 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7300	-.5915	-.6170
.200	-.1473	-.0609	-.0412
.410	-.6161	-.0982	-.0766
.590	-.5581	-.1139	-.0628
.770		-.3193	-.1594
.950	-.5728	-.5640	-.2682

BETA (6) = 5.030 ALPHA (5) = 6.230 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6981	-.5600	-.5864
.200	-.1302	-.0548	-.0323
.410	-.6413	-.0802	-.0558
.590	-.5571	-.0988	-.0381
.770		-.3221	-.1388
.950	-.5600	-.5776	-.2457

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 299

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (6) = 5.030 ALPHA (6) = 8.330 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6363	-.5132	-.5319
.200	-.1014	-.0443	-.0197
.410	-.6757	-.0482	-.0127
.590	-.5595	-.0689	.0079
.770		-.3556	-.0961
.950	-.5634	-.5999	-.2117

BETA (6) = 5.030 ALPHA (7) = 10.380 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5607	-.4722	-.4653
.200	-.0678	-.0305	-.0078
.410	-.6473	-.0088	.0336
.590	-.5597	-.0452	.0543
.770		-.3925	-.0535
.950	-.5223	-.6305	-.1751

BETA (6) = 5.030 ALPHA (8) = 15.630 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3312	-.3751	-.3175
.200	-.0332	.0029	.0559
.410	-.6067	.0951	.1559
.590	-.5276	-.0576	.1530
.770		-.5950	.0436
.950	-.3751	-.6438	-.1074

DATE 20 OCT 76

TABULATED PRESSURE DATA - CA163 (NAAL-751)

PAGE 300

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (6) = 5.030 ALPHA (9) = 20.910 Q(PSF) = 43.320 PQ/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0616	-.4401	-.3257
.200	-.2455	.0668	.1433
.410	-.6123	.1983	.2484
.590	-.4597	-.2592	.2533
.770		-.7150	.1193
.950	-.2367	-.4988	-.0880

BETA (7) = 10.080 ALPHA (1) = -.010 Q(PSF) = 43.330 PQ/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8229	-.8928	-1.0306
.200	-.4301	-.2795	-.2953
.410	-1.1242	-.3140	-.2579
.590	-.8741	-.4498	-.2441
.770		-.8406	-.3975
.950	-.6142	-.8574	-.4803

BETA (7) = 10.080 ALPHA (2) = 2.060 Q(PSF) = 43.330 PQ/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7454	-.8091	-.9256
.200	-.4339	-.2919	-.2713
.410	-1.0961	-.2821	-.2135
.590	-.8649	-.4750	-.2096
.770		-.8992	-.3745
.950	-.5818	-.8541	-.4652

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 301

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN28)

BETA (7) = 10.080 ALPHA (3) = 4.150 Q(PSF) = 43.330 P0/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6793	-.7352	-.8303
.200	-.4489	-.2950	-.2568
.410	-1.0832	-.2480	-.1705
.590	-.8616	-.4940	-.1705
.770		-.9420	-.3614
.950	-.5528	-.8420	-.4568

BETA (7) = 10.080 ALPHA (4) = 5.190 Q(PSF) = 43.330 P0/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6557	-.7066	-.7948
.200	-.4528	-.2969	-.2489
.410	-1.0869	-.2332	-.1499
.590	-.8693	-.5145	-.1587
.770		-.9722	-.3524
.950	-.5361	-.8331	-.4538

BETA (7) = 10.080 ALPHA (5) = 6.230 Q(PSF) = 43.330 P0/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6340	-.6733	-.7636
.200	-.4544	-.2944	-.2502
.410	-1.0885	-.2179	-.1315
.590	-.8745	-.5368	-.1403
.770		-.9962	-.3440
.950	-.5231	-.8215	-.4505

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 302

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN28)

BETA (7) = 10.080 ALPHA (6) = 8 330 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6049	-.6293	-.7184
.200	-.4805	-.2858	-.2358
.410	-1.1080	-.1810	-.0920
.590	-.9005	-.5921	-.0998
.770		-1.0199	-.3353
.950	-.4894	-.7801	-.4522

BETA (7) = 10.080 ALPHA (7) = 10.440 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5752	-.5880	-.6822
.200	-.5232	-.2757	-.2336
.410	-1.1358	-.1511	-.0461
.590	-.9306	-.6557	-.0520
.770		-1.0209	-.3285
.950	-.4506	-.7225	-.4594

BETA (7) = 10.080 ALPHA (8) = 15.670 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5726	-.5765	-.6235
.200	-.8525	-.2349	-.1673
.410	-1.1872	-.0998	.0914
.590	-.8730	-.8936	.0187
.770		.9132	-.3620
.950	-.3386	-.5266	-.5363

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 303

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN28)

BETA (7) = 10.080 ALPHA (9) = 20.930 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4566	-.9288	-.7616
.200	-1.6788	-.0840	.0422
.410	-1.1469	-.2542	.1649
.590	-.7489	-1.0168	.0334
.770		-.6668	-.5058
.950	-.2444	-.3099	-.5807

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 304

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076 7000 IN. XO
LREF = 474.8100 INCHES YMRP = 0000 IN YO
BREF = 936.6800 INCHES ZMRP = 375 0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = 10.000
BDFLAP = -11.700 SPDBRK = .000
PHI-N = 66.000 THETAN = 109.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.090 ALPHA (1) = .120 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0345 .0059 .1158
.200 .0198 .0346 .0584
.410 -.0512 -.0394 -.0552
.590 -.0710 -.0779 -.1035
.770 -.1380 -.1476
.950 -.2701 -.2731 -.2465

BETA (1) = -10.090 ALPHA (2) = 2.210 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0585 .0694 .1060
.200 .0743 .0941 .1139
.410 .0040 .0159 .0030
.590 -.0217 -.0276 -.0493
.770 -.0937 -.1030
.950 -.2319 -.2369 -.2073

BETA (1) = -10.090 ALPHA (3) = 4.260 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1547 .1340 .1232
.200 .1311 .1449 .1725
.410 .0572 .0680 .0552
.590 .0256 .0187 .0010
.770 -.0491 -.0568
.950 -.1924 -.1963 -.1659

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 305

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (1) = -10.090 ALPHA (4) = 5.330 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2042	.1549	.1420
.200	.1568	.1697	.1973
.410	.0848	.0937	.0819
.590	.0513	.0424	.0256
.770		-.0285	-.0323
.950	-.1719	-.1739	-.1415

BETA (1) = -10.090 ALPHA (5) = 6.380 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2490	.1946	.1551
.200	.1848	.1956	.2213
.410	.1136	.1195	.1097
.590	.0761	.0682	.0524
.770		-.0048	-.0068
.950	-.1516	-.1506	-.1191

BETA (1) = -10.090 ALPHA (6) = 8.470 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3415	.2586	.1905
.200	.2369	.2507	.2763
.410	.1678	.1747	.1658
.590	.1224	.1174	.1036
.770		.0395	.0384
.950	-.1062	-.1042	-.0717

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 306

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (1) = -10.090 ALPHA (7) = 10.590 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4169	.3191	2262
.200	.2924	.2954	3231
.410	.2223	2262	.2183
.590	.1729	.1650	.1512
.770		.0840	.0858
.950	-.0620	-.0590	-.0334

BETA (1) = -10.090 ALPHA (8) = 15.840 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4944	.4825	.3256
.200	.4115	.4056	.4312
.410	.3473	.3434	.3473
.590	.2901	.2812	.2743
.770		.1875	.2015
.950	.0336	.0474	.0750

BETA (1) = -10.090 ALPHA (9) = 21.050 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.5827	.5591	.4882
.200	.5138	.4971	.5109
.410	.4557	.4459	.4557
.590	.3927	.3859	.3849
.770		.2923	.3022
.950	.1211	.1368	.1614

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 307

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (2) = -5.050 ALPHA (1) = 1.130 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180 00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4391	-.3782	-.4529
.200	.0168	.0197	.0089
.410	-.0422	-.0452	-.0736
.590	-.0599	-.0756	-.0953
.770	-.1365	-.1471	
.950	-.2898	-.2849	-.2633

BETA (2) = -5.050 ALPHA (2) = 2.200 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3798	-.3060	-.3847
.200	.0573	.0721	.0652
.410	.0010	.0020	-.0187
.590	-.0187	-.0314	-.0501
.770	-.0974	-.1015	
.950	-.2558	-.2489	-.2253

BETA (2) = -5.060 ALPHA (3) = 4.270 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2977	-.2387	-.3065
.200	.0996	.1164	.1233
.410	.0473	.0454	.0306
.590	.0187	.0089	.0010
.770	-.0579	-.0568	
.950	-.2210	-.2122	-.1886

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 308

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (2) = -5.060 ALPHA (4) = 5.350 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
- .040 -.2417 -.2053 -.2584
.200 .1203 .1391 .1479
.410 .0671 .0690 .0592
.590 .0375 .0296 .0247
.770 -.0373 -.0334
.950 - 2004 - 1945 - 1700

BETA (2) = -5.050 ALPHA (5) = 6.380 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.1858 -.1770 -.2202
.200 .1411 .1599 .1717
.410 .0888 .0908 .0849
.590 .0602 .0523 .0474
.770 -.0196 -.0112
.950 -.1809 -.1760 -.1524

BETA (2) = -5.050 ALPHA (6) = 8.460 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.0789 -.1154 -.1351
.200 .1812 .1990 .2149
.410 .1356 .1366 .1347
.590 .0990 .0970 .0951
.770 .0218 .0329
.950 -.1371 -.1371 -.1144

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 305

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (2) = -5.060 ALPHA (7) = 10.550 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0208	-.0562	-.0582
.200	.2228	.2318	.2605
.410	.1793	.1813	.1822
.590	.1397	.1387	.1426
.770		.0604	.0772
.950	-.0957	-.1006	-.0759

BETA (2) = -5.050 ALPHA (8) = 15.850 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3826	.0900	.1187
.200	.3174	.3184	.3569
.410	.2739	.2798	.2937
.590	.2304	.2383	.2640
.770		.1602	.1853
.950	-.0463	.0059	.0267

BETA (2) = -5.050 ALPHA (9) = 21.070 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4307	.3588	.1932
.200	.3943	.3893	.4150
.410	.3578	.3706	.3943
.590	.3144	.3361	.3489
.770		.2563	.2684
.950	-.1188	.1232	.1488

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 310

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (3) = -2.000 ALPHA (1) = .130 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5675	-.4490	-.5803
.200	-.0098	.0069	-.0048
.410	-.0661	-.0641	-.0868
.590	-.0947	-.0957	-.1075
.770	-.1658	-.1601	
.950	-.3681	-.3049	-.2724

BETA (3) = -2.010 ALPHA (2) = 2.220 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5006	-.3788	-.4878
.200	.0227	.0483	.0473
.410	-.0294	-.0216	-.0343
.590	-.0569	-.0559	-.0589
.770	-.1285	-.1191	
.950	-.3828	-.2699	-.2385

BETA (3) = -2.000 ALPHA (3) = 4.290 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4257	-.3195	-.4178
.200	.0533	.0849	.0928
.410	.0069	.0158	.0158
.590	-.0255	-.0177	-.0137
.770	-.0934	-.0825	
.950	-.4287	-.2320	-.2084

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 311

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (3) = -2.000 ALPHA (4) = 5.330 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3798	-.2922	-.3818
.200	.0681	.1007	.1146
.410	.0237	.0365	.0356
.590	-.0098	.0030	.0059
.770		-.0757	-.0613
.950	-.4418	-.2145	-.1918

BETA (3) = -2.000 ALPHA (5) = 6.360 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3316	-.2627	-.3444
.200	.0859	.1165	.1313
.410	.0435	.0543	.0602
.590	.0069	.0227	.0277
.770		-.0560	-.0357
.950	-.4546	-.1948	-.1712

BETA (3) = -2.000 ALPHA (6) = 8.470 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2285	-.1990	-.2709
.200	.1206	.1503	.1730
.410	.0811	.0969	.1019
.590	.0316	.0623	.0752
.770		.0147	.0053
.950	-.4522	-.1546	-.1330

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 312

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (3) = -2.010 ALPHA (7) = 10.550 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1343	-.1501	-.1956
.200	.1567	.1785	.2112
.410	.1170	.1348	.1428
.590	.0387	.1011	.1200
.770	.0218	.0452	
.950	-.4238	-.1106	-.0928

BETA (3) = -2.010 ALPHA (8) = 15.850 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2598	-.0836	.0198
.200	.2351	.2450	.2855
.410	.2006	.2233	.2549
.590	-.0256	.2035	.2420
.770		.1324	.1620
.950	-.2933	.0168	.0277

BETA (3) = -2.010 ALPHA (9) = 21.080 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3111	.1011	.0893
.200	.3023	.3013	.3376
.410	.1678	.3092	.3543
.590	-.0616	.2964	.3475
.770		.2424	.2662
.950	-.1946	.1453	.1492

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 313

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN29)

BETA (4) = .020 ALPHA (1) = .100 Q(PSF) = 43.177 P0/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6381	-.5036	-.6352
.200	-.0451	-.0176	-.0235
.410	-.1001	-.0864	-.0972
.590	-.1492	-.1188	-.1158
.770	-.1914		.1793
.950	-.5940	-.3190	-.2906

BETA (4) = .010 ALPHA (2) = 2.200 Q(PSF) = 43.177 P0/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5827	-.4431	-.5640
.200	-.0196	.0187	.0217
.410	-.0658	-.0491	-.0491
.590	-.1424	-.0815	-.0717
.770		.1542	-.1415
.950	-.5777	-.2830	-.2584

BETA (4) = .020 ALPHA (3) = 4.260 Q(PSF) = 43.177 P0/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5131	-.3863	-.4875
.200	.0069	.0503	.0622
.410	-.0314	-.0117	-.0038
.590	-.1602	-.0432	-.0334
.770		-.1169	-.0992
.950	-.5199	-.2427	-.2251

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 314

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (4) = .020 ALPHA (4) = 5.350 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4801	-.3542	-.4536
.200	.0247	.0642	.0830
.410	-.0147	.0049	.0158
.590	-.1790	-.0236	-.0098
.770	-.0984	-.0792	
.950	-.4979	-.2214	-.2066

BETA (4) = .030 ALPHA (5) = 6.360 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4290	-.3217	-.4201
.200	.0385	.0780	.0997
.410	.0049	.0267	.0336
.590	-.1958	-.0029	.0128
.770	-.0806	-.0591	
.950	-.4762	-.2007	-.1869

BETA (4) = .030 ALPHA (6) = 8.460 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3355	-.2674	-.3306
.200	.0713	.1070	.1357
.410	.0297	.0604	.0713
.590	-.2427	.0347	.0584
.770	-.0375	-.0179	
.950	-.4480	-.1579	-.1431

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 315

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (4) = .030 ALPHA (7) = 10.560 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2248	-.2505	-.2288
.200	.1029	.1326	.1663
.410	.0307	.0930	.1119
.590	-.2791	.0752	.1069
.770		.0020	.0318
.950	-.4260	-.1154	-.0976

BETA (4) = .030 ALPHA (8) = 15.780 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1166	-.1743	-.0650
.200	.1730	.1809	.2214
.410	-.0787	.1858	.2283
.590	-.2560	.1809	.2145
.770		.1038	.1312
.950	-.3535	-.0413	.0217

BETA (4) = .030 ALPHA (9) = 21.060 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2254	-.0568	.0079
.200	.2579	.2402	.2786
.410	-.1500	.2815	.3189
.590	-.1951	.2963	.3297
.770		.1929	.2549
.950	-.2520	-.0765	.1437

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 316

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (5) = 2.040 ALPHA (1) = .080 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7121	-.5763	-.6973
.200	-.0983	-.0501	-.0511
.410	-.1622	-.1170	-.1121
.590	-.3432	-.1455	-.1327
.770		-.2203	-.1997
.950	-.6324	-.3442	-.3157

BETA (5) = 2.040 ALPHA (2) = 2.170 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6686	-.5165	-.6294
.200	-.0716	-.0196	-.0107
.410	-.1463	-.0844	-.0707
.590	-.3819	-.1060	-.0952
.770		-.1855	-.1592
.950	-.5989	-.3102	-.2798

BETA (5) = 2.040 ALPHA (3) = 4.210 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5991	-.4609	-.5527
.200	-.0454	.0069	.0258
.410	-.1411	-.0483	-.0365
.590	-.4126	-.0681	-.0523
.770		-.1520	-.1220
.950	-.5636	-.2813	-.2438

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 317

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (5) = 2.040 ALPHA (4) = 5.290 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5677	-.4273	-.5088
.200	-.0294	.0237	.0414
.410	-.1424	-.0314	-.0186
.590	-.4223	-.0481	-.0265
.770		-.1316	-.1036
.950	-.5481	-.2662	-.2239

BETA (5) = 2.040 ALPHA (5) = 6.350 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5340	-.4076	-.4605
.200	-.0146	.0374	.0600
.410	-.1509	-.0146	.0000
.590	-.4115	-.0303	-.0038
.770		-.1127	-.0811
.950	-.5301	-.2567	-.2018

BETA (5) = 2.040 ALPHA (6) = 8.420 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4562	-.3697	-.3824
.200	.0118	.0572	.0829
.410	-.1976	.0188	.0365
.590	-.3795	.0079	.0414
.770		-.0786	-.0356
.950	-.5211	-.2408	-.1592

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 318

OA163 ORB+OP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (5) = 2.040 ALPHA (7) = 10.520 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL 0920 .3280 .5640

X/CNL

.040	-.3504	-.3238	-.3149
.200	.0377	.0733	.0951
.410	-.2774	.0535	.0773
.590	-.3524	.0476	.0902
.770	-	.0503	.0064
.950	-.4995	-.2477	-.1155

BETA (5) = 2.040 ALPHA (8) = 15.770 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0343	-.2525	-.1582
.200	.1233	.1154	.1647
.410	-.3989	.1529	.2022
.590	-.3458	.1519	.1884
.770	-	.0373	.1143
.950	-.4127	-.3174	.0010

BETA (5) = 2.030 ALPHA (9) = 21.050 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL 0920 3280 .5640

X/CNL

.040	.1277	-.2026	-.0969
.200	.1877	.1710	.2240
.410	-.3142	.2525	.2869
.590	-.2839	.2240	.3026
.770	-	.1762	.2369
.950	-.2672	-.3505	.1091

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 319

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (6) = 5.070 ALPHA (1) = .090 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8353	-.7063	-.7802
.200	-.2127	-.1201	-.1132
.410	-.4630	-.1763	-.1595
.590	-.5979	-.1980	-.1664
.770		-.3260	-.2458
.950	-.6432	-.5152	-.3467

BETA (6) = 5.060 ALPHA (2) = 2.190 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7845	-.6521	-.7041
.200	-.1794	-.0892	-.0784
.410	-.5080	-.1451	-.1275
.590	-.5609	-.1608	-.1235
.770		-.3118	-.2102
.950	-.6129	-.5295	-.3148

BETA (6) = 5.060 ALPHA (3) = 4.260 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7458	-.6062	-.6416
.200	-.1532	-.0707	-.0491
.410	-.5787	-.1110	-.0913
.590	-.5532	-.1257	-.0795
.770		-.3134	-.1727
.950	-.5817	-.5561	-.2810

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 320

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (6) = 5.060 ALPHA (4) = 5.300 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7186	-.5802	-.6087
.200	-.1423	-.0589	-.0382
.410	-.6175	-.0932	-.0697
.590	-.5498	-.1089	-.0559
.770		-.3141	.1537
.950	-.5664	-.5586	-.2641

BETA (6) = 5.060 ALPHA (5) = 6.360 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6872	-.5527	-.5802
.200	-.1247	-.0520	-.0284
.410	-.6313	-.0756	-.0490
.590	-.5508	-.0923	-.0324
.770		-.3220	-.1336
.950	-.5596	-.5724	-.2454

BETA (6) = 5.050 ALPHA (6) = 8.450 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6233	-.5043	-.5191
.200	-.0953	-.0383	-.0167
.410	-.6705	-.0432	-.0078
.590	-.5564	-.0639	.0118
.770		-.3470	-.0914
.950	-.5584	-.5987	-.2084

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 321

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (6) = 5.050 ALPHA (7) = 10 540 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5538	-.4641	-.4612
.200	-.0660	-.0295	-.0029
.410	-.6465	-.0058	.0356
.590	-.5568	-.0453	.0574
.770		-.4011	-.0514
.950	-.5184	-.6327	-.1705

BETA (6) = 5.050 ALPHA (8) = 15.810 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3361	-.3735	-.3173
.200	-.0354	.0020	.0574
.410	-.6081	.0999	.1603
.590	-.5283	-.0611	.1573
.770		-.5992	.0473
.950	-.3676	-.6426	-.1094

BETA (6) = 5 040 ALPHA (9) = 21.080 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0597	-.4396	-.3192
.200	-.2291	.0717	.1464
.410	-.6060	.2005	.2486
.590	-.4523	-.2408	.2555
.770		-.7147	.1304
.950	-.2291	-.4944	-.0842

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 322

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN29)

BETA (7) = 10.150 ALPHA (1) = .120 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8051	-.8790	-1.0219
.200	-.4336	-.2798	-.3005
.410	-1.1205	-.3074	-.2522
.590	-.8721	-.4553	-.2384
.770		-.8386	-.3901
.950	-.6060	-.8534	-.4779

BETA (7) = 10.150 ALPHA (2) = 2.200 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7327	-.7985	-.9212
.200	-.4360	-.3025	-.2779
.410	-1.1039	-.2818	-.2082
.590	-.8584	-.4704	-.2042
.770		-.8937	-.3721
.950	-.5765	-.8476	-.4655

BETA (7) = 10.150 ALPHA (3) = 4.300 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6749	-.7290	-.8224
.200	-.4535	-.2902	-.2548
.410	-1.0881	-.2469	-.1662
.590	-.8598	-.5066	-.1692
.770		-.9503	-.3560
.950	-.5440	-.8362	-.4545

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 323

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (7) = 10.150 ALPHA (4) = 5.320 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 5640

X/CNL

.040	-.6486	-.7008	-.7904
.200	-.4537	-.2913	-.2460
.410	-1.0837	-.2283	-.1466
.590	-.8602	-.5187	-.1535
.770		-.9666	-.3551
.950	-.5285	-.8209	-.4518

BETA (7) = 10.150 ALPHA (5) = 6.370 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6295	-.6679	-.7614
.200	-.4495	-.2931	-.2439
.410	-1.0860	-.2154	-.1278
.590	-.8725	-.5390	-.1337
.770		-.8945	-.3482
.950	-.5135	-.8056	-.4525

BETA (7) = 10.150 ALPHA (6) = 8.460 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 5640

X/CNL

.040	-.6014	-.6279	-.7185
.200	-.4833	-.2834	-.2362
.410	-1.1162	-.1821	-.0895
.590	-.9045	-.5925	-.0915
.770		-1.0266	-.3428
.950	-.4872	-.7717	-.4498

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 324

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN29)

BETA (7) = 10.150 ALPHA (7) = 10.580 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5722	-.5820	-.6738
.200	-.5248	-.2861	-.2407
.410	-1.1493	-.1509	-.0424
.590	-.9362	-.6698	-.0522
.770		-1.0240	-.3324
.950	-.4488	-.7142	-.4617

BETA (7) = 10.150 ALPHA (8) = 15.810 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5781	-.5741	-.6280
.200	-.8593	-.2292	-.1646
.410	-1.1914	-.1087	.0924
.590	-.8759	-.9043	.0177
.770		-.9004	-.3679
.950	-.3341	-.5055	-.5516

BETA (7) = 10.150 ALPHA (9) = 21.070 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-O

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4467	-.9355	-.7690
.200	-1.7045	-.0783	.0531
.410	-1.1373	-.2654	.1662
.590	-.7494	-1.0197	.0403
.770		-.6563	-.5067
.950	-.2390	-.2987	-.5819

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 325

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN YO
BREF = 936 6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = -10.000
BDFLAP = -11.700 SPOBRK = .000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.100 ALPHA (1) = -.130 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0325 .0040 .1169
.200 .0079 .0277 .0485
.410 -.0601 -.0463 -.0641
.590 -.0779 -.0878 -.1115
.770 -.1470 -.1578
.950 -.2812 -.2861 -.2555

BETA (1) = -10.100 ALPHA (2) = 1.950 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .0407 .0615 .1101
.200 .0694 .0833 .1061
.410 -.0049 .0069 -.0028
.590 -.0296 -.0385 -.0602
.770 -.1017 -.1132
.950 -.2421 -.2470 -.2144

BETA (1) = -10.100 ALPHA (3) = 4.040 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1399 .1232 .1114
.200 .1222 .1370 .1597
.410 .0493 .0581 .0483
.590 .0207 .0099 -.0068
.770 -.0569 -.0623
.950 -.1983 -.2013 -.1728

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 326

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (1) = -10.100 ALPHA (4) = 5.090 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1901	.1574	.1356
.200	.1495	.1633	.1910
.410	.0782	.0861	.0762
.590	.0426	.0346	.0198
.770		-.0335	-.0402
.950	-.1795	-.1804	-.1509

BETA (1) = -10.100 ALPHA (5) = 6.120 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2438	.1776	.1540
.200	.1786	.1924	.2151
.410	.1066	.1125	.1036
.590	.0691	.0582	.0424
.770		-.0108	-.0167
.950	-.1593	-.1593	-.1268

BETA (1) = -10.100 ALPHA (6) = 8.250 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2321	.1106	.1837
.200	.1620	.1639	.2657
.410	.1175	.1323	.1590
.590	-.1141	.0316	-.0816
.770		-.1111	-.0334
.950	-.3099	.3269	.2518

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 327

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (1) = -10.100 ALPHA (7) = 10.320 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4084	.3095	.2176
.200	.2858	.2947	.3155
.410	.2176	.2195	.2106
.590	.1661	.1553	.1444
.770		.0771	.0815
.950	-.0689	-.0689	-.0384

BETA (1) = -10.110 ALPHA (8) = 15.570 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4873	.4744	.3146
.200	.4064	.4014	.4261
.410	.3442	.3393	.3393
.590	.2821	.2732	.2693
.770		.1835	.1937
.950	.0286	.0316	.0651

BETA (1) = -10.110 ALPHA (9) = 20.810 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.5799	.5543	.4863
.200	.5060	.4942	.5100
.410	.4489	.4450	.4519
.590	.3849	.3780	.3771
.770		.2835	.3022
.950	.1152	.1309	.1536

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 328

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (2) = -5.070 ALPHA (1) = -.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4469	-.3919	-.4597
.200	.0089	.0119	.0000
.410	-.0502	-.0561	-.0817
.590	-.0679	-.0827	-.1053
.770		-.1466	-.1563
.950	-.2982	-.2923	-.2746

BETA (2) = -5.070 ALPHA (2) = 1.970 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3860	-.3143	-.3890
.200	.0523	.0631	.0572
.410	-.0058	-.0068	-.0265
.590	-.0265	-.0402	-.0559
.770		-.1041	-.1092
.950	-.2652	-.2583	-.2357

BETA (2) = -5.070 ALPHA (3) = 4.020 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3088	-.2488	-.3127
.200	.0918	.1076	.1155
.410	.0365	.0375	.0257
.590	.0118	.0020	-.0088
.770		-.0679	-.0624
.950	-.2281	-.2212	-.1976

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 329

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (2) = -5.070 ALPHA (4) = 5.050 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2603	-.2179	-.2800
.200	.1128	.1296	.1405
.410	.0604	.0604	.0485
.590	.0317	.0228	.0158
.770	-.0473	-.0402	
.950	-.2110	-.2041	-.1814

BETA (2) = -5.070 ALPHA (5) = 6.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2077	-.1840	-.2313
.200	.1324	.1531	.1670
.410	.0830	.0860	.0761
.590	.0534	.0474	.0405
.770	-.0256	-.0200	
.950	-.1880	-.1831	-.1634

BETA (2) = -5.070 ALPHA (6) = 8.190 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0944	-.1239	-.1525
.200	.1738	.1916	.2074
.410	.1254	.1304	.1274
.590	.0918	.0889	.0859
.770	.0138	.0273	
.950	-.1476	-.1446	-.1220

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 330

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (2) = -5.070 ALPHA (7) = 10.280 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0089	-.0667	-.0648
.200	.2188	.2287	.2523
.410	.1735	.1745	.1755
.590	.1321	.1311	.1341
.770		.0552	.0713
.950	-.1031	-.1060	-.0844

BETA (2) = -5.070 ALPHA (8) = 15.520 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3758	.0826	.1112
.200	.3158	.3109	.3492
.410	.2686	.2725	.2863
.590	.2243	.2332	.2538
.770		.1564	.1767
.950	-.0401	-.0009	.0207

BETA (2) = -5.070 ALPHA (9) = 20.800 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4269	.3435	.1924
.200	.3926	.3867	.4083
.410	.3543	.3671	.3877
.590	.3072	.3327	.3425
.770		.2532	.2585
.950	-.1163	.1197	.1374

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 331

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (3) = -2.010 ALPHA (1) = -.110 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5704	-.4573	-.5931
.200	-.0147	.0000	-.0127
.410	-.0737	-.0718	-.0963
.590	-.1003	-.1032	-.1150
.770		-.1711	-.1684
.950	-.3629	-.3118	-.2803

BETA (3) = -2.010 ALPHA (2) = 1.940 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5128	-.3908	-.5059
.200	.0138	.0395	.0405
.410	-.0364	-.0315	-.0433
.590	-.0630	-.0649	-.0659
.770		-.1378	-.1295
.950	-.3898	-.2785	-.2500

BETA (3) = -2.010 ALPHA (3) = 4.040 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4355	-.3244	-.4267
.200	.0474	.0799	.0878
.410	.0010	.0118	.0079
.590	-.0324	-.0226	-.0216
.770		-.0993	-.0869
.950	-.4247	-.2418	-.2153

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 332

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (3) = -2.010 ALPHA (4) = 5.070 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3876	-.2971	-.3906
.200	.0642	.0968	.1047
.410	.0198	.0296	.0306
.590	-.0167	-.0029	.0020
.770		-.0806	-.0669
.950	-.4358	-.2213	-.1977

BETA (3) = -2.010 ALPHA (5) = 6.100 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3419	-.2662	-.3546
.200	.0809	.1124	.1292
.410	.0385	.0493	.0532
.590	-.0009	.0168	.0217
.770		-.0619	-.0456
.950	-.4529	-.2033	-.1798

BETA (3) = -2.010 ALPHA (6) = 8.180 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2378	-.2064	-.2781
.200	.1174	.1440	.1707
.410	.0760	.0908	.0987
.590	.0306	.0552	.0671
.770		-.0226	.0009
.950	-.4541	-.1621	-.1415

DATE 20 OCT 75

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 333

0A163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (3) = -2.010 ALPHA (7) = 10.300 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1371	-.1489	-.2018
.200	.1534	.1780	.2075
.410	.1131	.1308	.1387
.590	.0443	.0964	.1141
.770		.0187	.0393
.950	-.4291	-.1166	-.0979

BETA (3) = -2.010 ALPHA (8) = 15.560 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2531	-.0863	.0108
.200	.2324	.2393	.2777
.410	.1999	.2177	.2443
.590	-.0235	.1950	.2324
.770		.1271	.1538
.950	-.2983	.0089	.0217

BETA (3) = -2.010 ALPHA (9) = 20.790 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3080	.0893	.0863
.200	.2962	.2991	.3335
.410	.1667	.3050	.3511
.590	-.0527	.2903	.3452
.770		.2354	.2583
.950	-.1993	.1403	.1432

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 334

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (4) = -.030 ALPHA (1) = -.140 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6557	-.5208	-.6537
.200	-.0531	-.0275	-.0354
.410	-.1053	-.0955	-.1063
.590	-.1604	-.1270	-.1260
.770		-.2008	.1865
.950	-.6025	-.3298	-.3032

BETA (4) = -.030 ALPHA (2) = 1.970 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5898	-.4526	-.5722
.200	-.0274	.0128	.0148
.410	-.0725	-.0558	-.0568
.590	-.1508	-.0881	-.0803
.770		-.1626	-.1489
.950	-.5839	-.2910	-.2674

BETA (4) = -.030 ALPHA (3) = 4.010 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5345	-.3957	-.5030
.200	.0000	.0435	.0583
.410	-.0393	-.0196	-.0118
.590	-.1653	-.0511	-.0403
.770		-.1260	-.1083
.950	-.5335	-.2529	-.2352

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 335

OA163 OF9+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (4) = -.030 ALPHA (4) = 5.060 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4908	-.3641	-.4633
.200	.0158	.0601	.0749
.410	-.0206	-.0009	.0069
.590	-.1845	-.0314	-.0186
.770		-.1050	-.0857
.950	-.5055	-.2306	-.2169

BETA (4) = -.030 ALPHA (5) = 6.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4419	-.3348	-.4252
.200	.0306	.0710	.0946
.410	-.0048	.0187	.0276
.590	-.2032	-.0098	.0049
.770		-.0854	-.0657
.950	-.4822	-.2091	-.1954

BETA (4) = -.030 ALPHA (6) = 8.190 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3443	-.2727	-.3463
.200	.0640	.1004	.1280
.410	.0256	.0532	.0650
.590	-.2433	.0286	.0512
.770		-.0480	-.0244
.950	-.4542	-.1658	-.1511

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 336

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (4) = -.030 ALPHA (7) = 10.280 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2410	-.2528	-.2430
.200	.0962	.1309	.1616
.410	.0317	.0892	.1051
.590	-.2805	.0694	.0991
.770		-.0058	.0241
.950	-.4366	-.1244	-.1047

BETA (4) = -.030 ALPHA (8) = 15.510 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1038	-.1752	-.0640
.200	.1700	.1819	.2243
.410	-.0669	.1799	.2214
.590	-.2619	.1739	.2115
.770		.1008	.1256
.950	-.3594	-.0433	.0129

BETA (4) = -.040 ALPHA (9) = 20.800 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2268	-.0772	.0010
.200	.2572	.2376	.2759
.410	-.1584	.2778	.3102
.590	-.2034	.2867	.3230
.770		.1856	.2443
.950	-.2611	-.0714	.1325

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 337

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (5) = 5.020 ALPHA (1) = -.130 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8526	-.7206	-.7935
.200	-.2166	-.1270	-.1220
.410	-.4538	-.1850	-.1663
.590	-.6104	-.2057	-.1762
.770	-.3367	-.2546	
.950	-.6507	-.5227	-.3603

BETA (5) = 5.020 ALPHA (2) = 1.950 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8017	-.6592	-.7192
.200	-.1906	-.0943	-.0854
.410	-.5099	-.1503	-.1336
.590	-.5728	-.1699	-.1326
.770	-.3173	-.2195	
.950	-.6249	-.5335	-.3252

BETA (5) = 5.020 ALPHA (3) = 4.020 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7549	-.6168	-.6521
.200	-.1635	-.0744	-.0567
.410	-.5816	-.1194	-.0959
.590	-.5591	-.1361	-.0871
.770	-.3182	-.1832	
.950	-.5875	-.5561	-.2878

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 338

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (5) = 5.020 ALPHA (4) = 5.110 Q(PSF) = 43 212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7317	-.5921	-.6176
.200	-.1504	-.0649	-.0442
.410	-.6137	-.0993	-.0786
.590	-.5616	-.1180	-.0629
.770		-.3235	-.1617
.950	-.5724	-.5704	-.2704

BETA (5) = 5.020 ALPHA (5) = 6.110 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6999	-.5672	-.5928
.200	-.1346	-.0580	-.0344
.410	-.6488	-.0855	-.0580
.590	-.5564	-.1002	-.0412
.770		-.3283	-.1427
.950	-.5672	-.5810	-.2546

BETA (5) = 5.020 ALPHA (6) = 8.200 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6366	-.5124	-.5292
.200	-.1025	-.0443	-.0197
.410	-.6731	-.0482	-.0157
.590	-.5647	-.0709	.0099
.770		-.3449	-.0995
.950	-.5647	-.6041	-.2148

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 339

0A163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (5) = 5.020 ALPHA (7) = 10.280 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5600	-.4647	-.4667
.200	-.0697	-.0314	-.0068
.410	-.6474	-.0117	.0286
.590	-.5541	-.0491	.0523
.770		-.4008	-.0590
.950	-.5207	-.6268	-.1788

BETA (5) = 5.020 ALPHA (8) = 15.540 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3452	-.3717	-.3186
.200	-.0334	.0010	.0553
.410	-.6048	.0957	.1550
.590	-.5271	-.0540	.1530
.770		-.5851	.0417
.950	-.3766	-.6481	-.1042

BETA (5) = 5.020 ALPHA (9) = 20.820 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0619	-.4401	-.3193
.200	-.2397	.0661	.1430
.410	-.6110	.1933	.2445
.590	-.4656	-.2515	.2554
.770		-.7152	.1198
.950	-.2367	-.4981	-.0953

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 340

OA163 ORB+GP

NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (6) = 10.100 ALPHA (1) = -.110 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.8168	-.8947	-1.0417
.200	-.4390	-.2880	-.3018
.410	-1.1364	-.3186	-.2634
.590	-.8829	-.4626	-.2505
.770	-.8533	-.3984	
.950	-.6146	-.8642	-.4863

BETA (6) = 10.100 ALPHA (2) = 1.980 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7459	-.8077	-.9304
.200	-.4495	-.3023	-.2846
.410	-1.1080	-.2875	-.2218
.590	-.8676	-.4789	-.2139
.770	-.9029	-.3774	
.950	-.5780	-.8529	-.4711

BETA (6) = 10.090 ALPHA (3) = 4.020 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6781	-.7419	-.8400
.200	-.4524	-.3022	-.2669
.410	-1.0913	-.2541	-.1766
.590	-.8636	-.5015	-.1776
.770	-.9539	-.3640	
.950	-.5535	-.8400	-.4602

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 341

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE

(RFFN30)

BETA (6) = 10.100 ALPHA (4) = 5.080 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6557	-.7067	-.8019
.200	-.4584	-.3023	-.2542
.410	-1.0974	-.2404	-.1600
.590	-.8647	-.5182	-.1600
.770	-.9757	-.3585	
.950	-.5389	-.8304	-.4593

BETA (6) = 10.090 ALPHA (5) = 6.130 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6329	-.6761	-.7673
.200	-.4631	-.2973	-.2521
.410	-1.0980	-.2217	-.1373
.590	-.8792	-.5348	-.1422
.770	-.9960	-.3529	
.950	-.5210	-.8183	-.4621

BETA (6) = 10.090 ALPHA (6) = 8.190 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6011	-.6276	-.7170
.200	-.4803	-.2927	-.2436
.410	-1.1207	-.1886	-.1002
.590	-.9017	-.6001	-.1021
.770	-.10264	-.3432	
.950	-.4891	-.7809	-.4577

C-5

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 342

OA163 ORB+GP NOSE GEAR DOOR OUTER SURFACE (RFFN30)

BETA (6) = 10.090 ALPHA (7) = 10.280 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5690	-.5808	-.6811
.200	-.5140	-.2869	-.2358
.410	-1.1361	-.1552	-.0540
.590	-.9258	-.6575	-.0579
.770		-1.0221	-.3389
.950	-.4521	-.7194	-.4678

BETA (6) = 10.090 ALPHA (8) = 15.530 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5715	-.5706	-.6168
.200	-.8293	-.2380	-.1702
.410	-1.1864	-.1052	.0869
.590	-.8873	-.8903	.0178
.770		-.9169	-.3627
.950	-.3453	-.5184	-.5420

BETA (6) = 10.090 ALPHA (9) = 20.780 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4555	-.9218	-.7618
.200	-1.6601	-.0844	.0483
.410	-1.1407	-.2454	.1626
.590	-.7549	-1.0151	.0335
.770		-.6744	-.5090
.950	-.2513	-.3082	-.6008

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 343

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = .000
 BDFLAP = -11.700 SPDBRK = .000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = .000 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0023 .0286 .1254
 .200 .0315 .0460 .0741
 .410 -.0332 -.0197 -.0370
 .590 -.0544 -.0592 -.0843
 .770 -.1161 -.1273
 .950 -.2444 -.2502 -.2213

BETA (1) = -10.080 ALPHA (2) = 5.210 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .2172 .1766 .1427
 .200 .1640 .1795 .2036
 .410 .0924 .1040 .0914
 .590 .0615 .0557 .0373
 .770 -.0129 -.0179
 .950 -.1536 -.1517 -.1228

BETA (1) = -10.070 ALPHA (3) = 10.420 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .4099 .3228 .2241
 .200 .2918 .2986 .3179
 .410 .2241 .2309 .2192
 .590 .1776 .1689 .1592
 .770 .0925 .0923
 .950 -.0486 -.0476 -.0206

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 344

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (1) = -10.070 ALPHA (4) = 15.660 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4848	4751	.3240
.200	.4083	4025	.4228
.410	.3434	3395	.3405
.590	.2853	2785	.2746
.770	.1933	.2027	
.950	.0441	.0557	.0800

BETA (1) = -10.070 ALPHA (5) = 20.880 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.5736	5456	.4830
.200	.5071	.4898	.5013
.410	.4512	.4445	.4464
.590	.3906	.3771	.3838
.770	.2875	.3049	
.950	.1277	.1411	.1662

BETA (2) = -5.030 ALPHA (1) = .000 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4144	-.3544	-.4231
.200	.0297	.0345	.0199
.410	-.0265	-.0304	-.0555
.590	-.0430	-.0584	-.0778
.770	-.1155	-.1255	
.950	-.2625	-.2587	-.2384

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 345

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (2) = -5.030 ALPHA (2) = 5.200 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2192	- .1863	-.2434
.200	.1249	.1434	.1550
.410	.0754	.0763	.0685
.590	.0491	.0404	.0336
.770		-.0256	-.0191
.950	-.1824	-.1756	-.1514

BETA (2) = -5.030 ALPHA (3) = 10.410 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0364	- .0478	-.0478
.200	.2267	.2364	.2636
.410	.1840	.1859	.1850
.590	.1432	.1442	.1481
.770		.0694	.0861
.950	-.0807	-.0845	-.0613

BETA (2) = -5.030 ALPHA (4) = 15.650 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3915	.0886	.1205
.200	.3179	.3150	.3479
.410	.2754	.2783	.2889
.590	.2299	.2405	.2618
.770		.1631	.1863
.950	-.0322	.0131	.0363

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 346

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (2) = -5.040 ALPHA (5) = 20.890 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4186	.3656	.1922
.200	.3878	.3810	.4032
.410	.3521	.3627	.3878
.590	.3088	.3290	.3386
.770		.2558	.2716
.950	-.1021	.1267	.1585

BETA (3) = .000 ALPHA (1) = -.010 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6149	-.4820	-.6159
.200	-.0380	-.0081	-.0139
.410	-.0880	-.0726	-.0803
.590	-.1430	-.1035	-.0977
.770		-.1728	-.1621
.950	-.5658	-.2922	-.2672

BETA (3) = .000 ALPHA (2) = 5.150 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4546	-.3381	-.4286
.200	.0276	.0701	.0903
.410	-.0071	.0150	.0237
.590	-.1871	-.0139	-.0013
.770		-.0851	-.0670
.950	-.4680	-.2015	-.1861

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 347

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (3) = .000 ALPHA (3) = 10.360 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2133	-.2354	-.2133
.200	.1055	.1363	.1613
.410	.0294	.0978	.1132
.590	-.2728	.0814	.1112
.770		.0130	.0402
.950	-.4023	-.0992	-.0838

BETA (3) = .000 ALPHA (4) = 15.640 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1322	-.1682	-.0612
.200	.1709	.1835	.2212
.410	-.0824	.1825	.2270
.590	-.2405	.1844	.2144
.770		.1080	.1377
.950	-.3389	-.0380	.0315

BETA (3) = .000 ALPHA (5) = 20.910 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2182	-.0666	.0015
.200	.2510	.2355	.2731
.410	-.1770	.2750	.3145
.590	-.1895	.2904	.3242
.770		.1778	.2479
.950	-.2403	-.0781	.1440

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 348

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (4) = 5.030 ALPHA (1) = -.010 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 5640

X/CNL

.040	-.8086	-.6810	-.7467
.200	-.1976	-.1048	-.0951
.410	-.4576	-.1628	-.1444
.590	-.5775	-.1783	-.1502
.770	-.3107	-.2241	
.950	-.6036	-.4924	-.3223

BETA (4) = 5.030 ALPHA (2) = 5.200 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 5640

X/CNL

.040	-.6942	-.5593	-.5833
.200	-.1343	-.0515	-.0274
.410	-.6123	-.0813	-.0630
.590	-.5390	-.0996	-.0438
.770	-.3058	-.1370	
.950	-.5342	-.5506	-.2413

BETA (4) = 5.020 ALPHA (3) = 10.410 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5370	-.4550	-.4482
.200	-.0612	-.0255	-.0071
.410	-.6191	-.0003	.0441
.590	-.5380	-.0448	.0625
.770	-.3922	-.0431	
.950	-.4849	-.6162	-.1596

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 349

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (4) = 5.020 ALPHA (4) = 15.650 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3172	-.3644	-.3037
.200	-.0418	.0063	.0576
.410	-.5936	.1049	.1610
.590	-.5146	-.0688	.1571
.770		-.5897	.0544
.950	-.3500	-.6292	-.0938

BETA (4) = 5.020 ALPHA (5) = 20.900 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0655	-.4300	-.3190
.200	-.2549	.0735	.1484
.410	-.5926	.1955	.2473
.590	-.4424	-.2731	.2550
.770		-.7008	.1281
.950	-.2195	-.4864	-.0798

BETA (5) = 10.060 ALPHA (1) = .000 Q(PSF) = 44.046 PO/PSF = 2116.4

SECTION (1) NOSE LND GR DR-O DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7883	-.8512	-.9964
.200	-.4205	-.2743	-.2772
.410	-1.1077	-.2937	-.2337
.590	-.8561	-.4505	-.2279
.770		-.8415	-.3683
.950	-.5763	-.8270	-.4553

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 350

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (5) = 10.060 ALPHA (2) = 5.200 Q(PSF) = 44.046 P0/PSF = 2116.4

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6370	-.6815	-.7752
.200	-.4448	-.2854	-.2371
.410	-1.0602	-.2168	-.1327
.590	-.8486	-.5182	-.1434
.770		-.9597	-.3325
.950	-.5056	-.7964	-.4390

BETA (5) = 10.070 ALPHA (3) = 10.430 Q(PSF) = 44.046 P0/PSF = 2116.4

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5648	-.5763	-.6669
.200	-.5291	-.2739	-.2258
.410	-1.1224	-.1439	-.0312
.590	-.9105	-.6649	-.0514
.770		-.9943	-.3194
.950	-.4290	-.6958	-.4540

BETA (5) = 10.070 ALPHA (4) = 15.660 Q(PSF) = 44.046 P0/PSF = 2116.4

SECTION (1) NOSE LND GR DR-0 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5687	-.5677	-.6236
.200	-.8836	-.2277	-.1622
.410	-1.1600	-.1015	-.0962
.590	-.8537	-.8884	-.0218
.770		-.8865	-.3446
.950	-.3259	-.5060	-.5147

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 351

OA163 ORB+GP+SS NOSE GEAR DOOR OUTER SURFACE

(RFFN31)

BETA (5) = 10.070 ALPHA (5) = 20.900 Q(PSF) = 44.046 P0/PSF = 2116.4

SECTION (1) NOSE LND GR DR-0

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4503	-.9146	-.7512
.200	-1.6895	-.0792	.0478
.410	-1.1069	-.2628	.1674
.590	-.7291	-1.0060	.0275
.770	-.6416	-.4803	
.950	-.2369	-.3032	-.5503

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 352

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE01) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = .000 THETAN = .000
PHI-M = .000 THETAM = .000

BETA (1) = -10.120 ALPHA (1) = .010 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5 0000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 - .1878 -.1888 -.1918
.200 - .1878 -.1898 -.1908
.410 - .1888 -.0258 -.1898
.590 - .1908 -.1898 -.1898
.770 - .1898
.950 - .1868 -.1878 -.1868

BETA (1) = -10.120 ALPHA (2) = 2.090 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 - .1666 -.1666 -.1656
.200 - .1676 -.1685
.410 - .1646 -.0565 -.1636
.590 - .1666 -.1676 -.1666
.770 - .1685
.950 - .1616 -.1616 -.1606

BETA (1) = -10.120 ALPHA (3) = 4.220 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 - .1417 -.1397 -.1427
.200 - .1407 -.1437
.410 - .1397 -.0565 -.1407
.590 - .1417 -.1417 -.1417
.770 - .1437
.950 - .1367 -.1377 -.1377

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 353

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (1) = -10.120 ALPHA (4) = 6.200 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1199	-.1189	-.1199
.200	-.1199		-.1219
.410	-.1160	-.0376	-.1219
.590	-.1179	-.1189	-.1199
.770		-.1199	
.950	-.1140	-.1160	-.1120

BETA (1) = -10.120 ALPHA (5) = 8.310 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0990	-.0980	-.1039
.200	-.0970		-.1049
.410	-.0940	-.0069	-.1009
.590	-.1000	-.0970	-.1009
.770		-.0970	
.950	-.0950	-.0970	-.0920

BETA (1) = -10.120 ALPHA (6) = 10.330 Q(PSF) = 42.852 PO/PSF = 2113.5 RUN NO = 5.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0802	-.0772	-.0841
.200	-.0792		-.0832
.410	-.0772	.0316	-.0822
.590	-.0792	-.0782	-.0772
.770		-.0733	
.950	-.0752	-.0772	-.0742

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 354

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (2) = -5.090 ALPHA (1) = .010 Q(PSF) = 42.905 P0/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1789	-.1789	-.1769
.200	-.1789	-.1789	-.1779
.410	-.1759	-.0168	-.1759
.590	-.1779	-.1779	-.1769
.770	-.1779	-.1799	
.950	-.1710	-.1779	-.1740

BETA (2) = -5.090 ALPHA (2) = 2.050 Q(PSF) = 42.905 P0/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1532	-.1532	-.1532
.200	-.1523		-.1542
.410	-.1493	-.0385	-.1493
.590	-.1532	-.1513	-.1523
.770		-.1552	
.950	-.1453	-.1513	-.1473

BETA (2) = -5.090 ALPHA (3) = 4.120 Q(PSF) = 42.905 P0/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1275	-.1265	-.1305
.200	-.1255		-.1285
.410	-.1255	-.0326	-.1275
.590	-.1275	-.1285	-.1275
.770		-.1315	
.950	-.1206	-.1265	-.1236

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 355

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (2) = -5.090 ALPHA (4) = 6.220 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1041	-.1051	-.1061
.200	-.1061		-.1051
.410	-.1011	-.0109	-.1041
.590	-.1051	-.1051	-.1011
.770		-.1041	
.950	-.0962	-.1031	-.1011

BETA (2) = -5.090 ALPHA (5) = 8.280 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0784	-.0784	-.0823
.200	-.0784		-.0794
.410	-.0784	.0227	-.0774
.590	-.0804	-.0784	-.0784
.770		-.0754	
.950	-.0744	-.0774	-.0764

BETA (2) = -5.090 ALPHA (6) = 10.320 Q(PSF) = 42.905 PO/PSF = 2113.3 RUN NO = 4.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0554	-.0544	-.0604
.200	-.0544		-.0604
.410	-.0554	.0633	-.0574
.590	-.0554	-.0564	-.0574
.770		-.0534	
.950	-.0515	-.0564	-.0544

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 356

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1632	-.1672	-.1672
.200	-.1642		-.1652
.410	-.1622	.0514	-.1652
.590	-.1642	-.1632	-.1652
.770		-.1672	
.950	-.1573	-.1613	-.1593

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1406	-.1435	-.1465
.200	-.1406		-.1435
.410	-.1416	.0059	-.1406
.590	-.1416	-.1416	-.1406
.770		-.1406	
.950	-.1336	-.1386	-.1356

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1159	-.1179	-.1189
.200	-.1199		-.1189
.410	-.1159	-.0059	-.1179
.590	-.1189	-.1189	-.1179
.770		-.1159	
.950	-.1120	-.1129	-.1139

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 357

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0893	-.0913	-.0952
.200	-.0942		-.0923
.410	-.0923	.0069	-.0903
.590	-.0923	-.0923	-.0913
.770		-.0903	
.950	-.0863	-.0843	-.0883

BETA (3) = .000 ALPHA (5) = 8.300 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0643	-.0663	-.0712
.200	-.0653		-.0702
.410	-.0633	.0336	-.0663
.590	-.0692	-.0673	-.0702
.770		-.0673	
.950	-.0584	-.0613	-.0613

BETA (3) = .000 ALPHA (6) = 10.350 Q(PSF) = 42.898 PO/PSF = 2113.3 RUN NO = 1.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0435	-.0425	-.0494
.200	-.0435		-.0455
.410	-.0415	.0711	-.0425
.590	-.0465	-.0455	-.0484
.770		-.0415	
.950	-.0385	-.0395	-.0395

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 358

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (4) = 4.970 ALPHA (1) = .010 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1770	-.1760	-.1800
.200	-.1740		-.1790
.410	-.1740	-.0326	-.1810
.590	-.1790	-.1750	-.1750
.770		-.1770	
.950	-.1731	-.1711	-.1731

BETA (4) = 4.970 ALPHA (2) = 2.060 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1497	-.1507	-.1547
.200	-.1487		-.1547
.410	-.1487	-.0475	-.1537
.590	-.1527	-.1517	-.1537
.770		-.1487	
.950	-.1468	-.1458	-.1448

BETA (4) = 4.970 ALPHA (3) = 4.150 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1267	-.1267	-.1287
.200	-.1247		-.1317
.410	-.1247	-.0386	-.1336
.590	-.1287	-.1257	-.1287
.770		-.1237	
.950	-.1228	-.1218	-.1218

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 359

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (4) = 4.970 ALPHA (4) = 6.200 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1012	-.1021	-.1071
.200	-.1012		-.1071
.410	-.1021	-.0149	-.1041
.590	-.1021	-.1051	-.1031
.770		-.1002	
.950	-.1012	-.0982	-.0932

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BETA (4) = 4.970 ALPHA (5) = 8.250 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0772	-.0762	-.0791
.200	-.0772		-.0782
.410	-.0752	.0128	-.0772
.590	-.0782	-.0782	-.0811
.770		-.0722	
.950	-.0722	-.0712	-.0702

BETA (4) = 4.970 ALPHA (6) = 10.330 Q(PSF) = 42.888 PO/PSF = 2113.4 RUN NO = 3.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0505	-.0485	-.0544
.200	-.0505		-.0524
.410	-.0495	.0504	-.0515
.590	-.0524	-.0544	-.0534
.770		-.0455	
.950	-.0455	-.0455	-.0465

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 360

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE01)

BETA (5) = 10.040 ALPHA (1) = .020 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.1964	- .1954	-.1964
.200	-.1974		-.1984
.410	-.1944	- .0188	-.2013
.590	-.1974	-.1964	-.1954
.770		-.1974	
.950	-.1914	-.1894	-.1894

BETA (5) = 10.040 ALPHA (2) = 2.100 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.1703	-.1713	-.1693
.200	-.1693		-.1723
.410	-.1653	-.0525	-.1742
.590	-.1713	-.1673	-.1742
.770		-.1673	
.950	-.1663	-.1643	-.1624

BETA (5) = 10.040 ALPHA (3) = 4.150 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1460	-.1450	-.1441
.200	-.1450		-.1520
.410	-.1431	-.0546	-.1500
.590	-.1460	-.1460	-.1460
.770		-.1411	
.950	-.1421	-.1381	-.1381

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 361

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFED1)

BETA (5) = 10.040 ALPHA (4) = 6.200 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1205	-.1186	-.1215
.200	-.1196		-.1304
.410	-.1196	-.0405	-.1265
.590	-.1225	-.1245	-.1225
.770		-.1156	
.950	-.1186	-.1146	-.1136

BETA (5) = 10.040 ALPHA (5) = 8.250 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0992	-.1002	-.0992
.200	-.1012		-.1111
.410	-.0962	-.0149	-.1051
.590	-.0992	-.1041	-.1032
.770		-.0962	
.950	-.0972	-.0912	-.0962

BETA (5) = 10.040 ALPHA (6) = 10.370 Q(PSF) = 42.853 PO/PSF = 2113.4 RUN NO = 2.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0793	-.0783	-.0813
.200	-.0783		-.0932
.410	-.0743	.0168	-.0803
.590	-.0813	-.0803	-.0842
.770		-.0753	
.950	-.0743	-.0713	-.0733

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TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 362

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BOFLAP = .000 SPDBRK = 25.000
PHI-N = 260 THETAN = .000
PHI-M = .230 THETAM = .000

BETA (1) = -10.050 ALPHA (1) = .040 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2021 -.2011 -.2021
.200 -.2011 -.1981
.410 -.2011 -.0297 -.2021
.590 -.2011 -.2021 -.1991
.770 -.2021
.950 -.1991 -.1981 -.2011

BETA (1) = -10.050 ALPHA (2) = 2.090 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1827 -.1807 -.1807
.200 -.1817 -.1807
.410 -.1807 -.0625 -.1837
.590 -.1807 -.1817 -.1827
.770 -.1817
.950 -.1778 -.1797 -.1778

BETA (1) = -10.050 ALPHA (3) = 4.170 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1608 -.1618 -.1598
.200 -.1608 -.1588
.410 -.1568 -.0615 -.1628
.590 -.1618 -.1608 -.1628
.770 -.1598
.950 -.1568 -.1588 -.1568

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 363

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (1) = -10.050 ALPHA (4) = 6.240 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1399	-.1409	-.1418
.200	-.1399		-.1399
.410	-.1359	-.0397	-.1448
.590	-.1418	-.1389	-.1418
.770		-.1448	
.950	-.1349	-.1379	-.1359

BETA (1) = -10.050 ALPHA (5) = 8.270 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1226	-.1235	-.1216
.200	-.1226		-.1196
.410	-.1206	-.0089	-.1265
.590	-.1216	-.1235	-.1245
.770		-.1235	
.950	-.1156	-.1226	-.1196

BETA (1) = -10.050 ALPHA (6) = 10.340 Q(PSF) = 42.872 PO/PSF = 2110.0 RUN NO = 10.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1056	-.1046	-.1027
.200	-.1036		-.1036
.410	-.1017	.0305	-.1115
.590	-.1036	-.1027	-.1066
.770		-.1056	
.950	-.0957	-.1036	-.0987

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 364

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (2) = -5.030 ALPHA (1) = .010 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1869	-.1879	-.1869
.200	-.1850		-.1860
.410	-.1850	-.0069	-.1860
.590	-.1860	-.1869	-.1869
.770		-.1840	
.950	-.1850	-.1810	-.1830

BETA (2) = -5.030 ALPHA (2) = 2.090 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1658	-.1638	-.1648
.200	-.1658		-.1648
.410	-.1638	-.0337	-.1708
.590	-.1678	-.1658	-.1658
.770		-.1658	
.950	-.1638	-.1648	-.1618

BETA (2) = -5.030 ALPHA (3) = 4.150 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1445	-.1455	-.1435
.200	-.1406		-.1406
.410	-.1426	-.0297	-.1455
.590	-.1435	-.1435	-.1465
.770		-.1426	
.950	-.1376	-.1396	-.1396

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 365

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (2) = -5.030 ALPHA (4) = 6.190 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1250	-.1240	-.1260
.200	-.1211		-.1240
.410	-.1211	-.0139	-.1280
.590	-.1240	-.1221	-.1240
.770		-.1250	
.950	-.1181	-.1221	-.1211

BETA (2) = -5.030 ALPHA (5) = 8.260 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1012	-.1012	-.1032
.200	-.1022		-.1012
.410	-.0973	.0168	-.1062
.590	-.1032	-.1022	-.1042
.770		-.1032	
.950	-.0943	-.0992	-.0992

BETA (2) = -5.030 ALPHA (6) = 10.430 Q(PSF) = 42.868 PO/PSF = 2109.9 RUN NO = 9.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0790	-.0770	-.0800
.200	-.0780		-.0780
.410	-.0760	.0582	-.0839
.590	-.0790	-.0790	-.0820
.770		-.0800	
.950	-.0721	-.0750	-.0760

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 366

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (3) = .010 ALPHA (1) = .030 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1772	-.1723	-.1743
.200	-.1753		-.1723
.410	-.1772	-.0158	-.1782
.590	-.1753	-.1762	-.1733
.770		-.1733	
.950	-.1713	-.1693	-.1713

BETA (3) = .010 ALPHA (2) = 2.050 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1574	-.1584	-.1594
.200	-.1534		-.1574
.410	-.1534	-.0346	-.1574
.590	-.1544	-.1574	-.1544
.770		-.1584	
.950	-.1505	-.1514	-.1524

BETA (3) = .010 ALPHA (3) = 4.200 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1335	-.1335	-.1355
.200	-.1315		-.1315
.410	-.1335	-.0277	-.1365
.590	-.1345	-.1345	-.1365
.770		-.1345	
.950	-.1276	-.1285	-.1276

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 367

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (3) = .010 ALPHA (4) = 6.190 Q(PSF) = 42.800 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1110	-.1100	-.1120
.200	-.1120		-.1120
.410	-.1120	-.0039	-.1139
.590	-.1120	-.1100	-.1139
.770		-.1139	
.950	-.1060	-.1080	-.1040

BETA (3) = .010 ALPHA (5) = 8.290 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0902	-.0912	-.0932
.200	-.0902		-.0872
.410	-.0882	.0237	-.0952
.590	-.0892	-.0892	-.0922
.770		-.0902	
.950	-.0813	-.0833	-.0823

BETA (3) = .010 ALPHA (6) = 10.320 Q(PSF) = 42.880 PO/PSF = 2109.9 RUN NO = 8.0000

SECTION (1) NOSE LND GR DP-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0734	-.0724	-.0744
.200	-.0704		-.0694
.410	-.0674	.0624	-.0744
.590	-.0734	-.0704	-.0763
.770		-.0724	
.950	-.0704	-.0664	-.0714

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 368

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (4) = 5.040 ALPHA (1) = .030 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1878	-.1868	-.1868
.200	-.1849		-.1849
.410	-.1859	-.0484	-.1878
.590	-.1868	-.1878	-.1859
.770		-.1878	
.950	-.1849	-.1849	-.1839

BETA (4) = 5.040 ALPHA (2) = 2.060 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1652	-.1643	-.1643
.200	-.1643		-.1633
.410	-.1652	-.0603	-.1682
.590	-.1652	-.1633	-.1633
.770		-.1633	
.950	-.1623	-.1603	-.1623

BETA (4) = 5.040 ALPHA (3) = 4.110 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	20.5940	-.1437	-.1427
.200	-.1407		-.1427
.410	-.1427	-.1455	-.1457
.590	-.1377	-.1427	-.1447
.770		-.1437	
.950	-.0139	-.1368	-.1368

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 369

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (4) = 5.040 ALPHA (4) = 6.180 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1222	- .1222	-.1251
.200	-.1242		-.1222
.410	-.1212	-.0248	-.1271
.590	-.1232	-.1242	-.1242
.770		-.1222	
.950	-.1212	- .1212	-.1222

BETA (4) = 5.040 ALPHA (5) = 8.250 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1000	-.1029	-.1039
.200	-.1000		-.0970
.410	-.1000	.0078	-.1059
.590	-.1039	-.1009	-.1019
.770		-.0990	
.950	-.0970	- .0970	-.0970

BETA (4) = 5.040 ALPHA (6) = 10.380 Q(PSF) = 42.910 PO/PSF = 2109.8 RUN NO = 7.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0769	-.0779	-.0799
.200	-.0769		-.0740
.410	-.0760	.0463	-.0829
.590	-.0789	-.0789	-.0789
.770		-.0760	
.950	-.0740	-.0740	-.0730

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 370

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (5) = 10.100 ALPHA (1) = .000 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2023	-.2043	-.2023
.200	-.2053		-.2033
.410	-.2023	-.0863	-.2033
.590	-.2023	-.2023	-.2013
.770		-.2023	
.950	-.2003	-.1974	-.1954

BETA (5) = 10.100 ALPHA (2) = 2.050 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1837	-.1817	-.1857
.200	-.1817		-.1837
.410	-.1807	-.0983	-.1837
.590	-.1817	-.1817	-.1837
.770		-.1817	
.950	-.1768	-.1758	-.1788

BETA (5) = 10.100 ALPHA (3) = 4.120 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1618	-.1628	-.1628
.200	-.1628		-.1608
.410	-.1608	-.0903	-.1638
.590	-.1638	-.1638	-.1608
.770		-.1598	
.950	-.1568	-.1568	-.1559

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 371

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE02)

BETA (5) = 10.100 ALPHA (4) = 6.240 Q(PSF) = 42.815 P0/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1398	-.1398	-.1417
.200	-.1398		-.1368
.410	-.1388	-.0664	-.1427
.590	-.1408	-.1398	-.1417
.770		-.1368	
.950	-.1368	-.1358	-.1368

BETA (5) = 10.100 ALPHA (5) = 8.250 Q(PSF) = 42.815 P0/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1211	-.1211	-.1251
.200	-.1201		-.1191
.410	-.1201	-.0357	-.1270
.590	-.1241	-.1251	-.1241
.770		-.1211	
.950	-.1221	-.1191	-.1171

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.815 P0/PSF = 2109.9 RUN NO = 6.0000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1010	-.1020	-.1050
.200	-.1040		-.1010
.410	-.1040	-.0010	-.1060
.590	-.1020	-.1020	-.1060
.770		-.0990	
.950	-.1040	-.0981	-.1000

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 372

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03) (20 OCT 76)

-REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 2.000 THETAN = .000
PHI-M = 2.000 THETAM = .000

BETA (1) = -10.040 ALPHA (1) = .000 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CN

.040 -.2095 -.2065 -.2105
.200 -.2075 -.2164
.410 -.2055 -.0337 -.2125
.590 -.2055 -.2045 -.2095
.770 -.2125
.950 -.1995 -.2025 -.2035

BETA (1) = -10.040 ALPHA (2) = 2.050 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1839 -.1849 -.1878
.200 -.1868 -.1868
.410 -.1839 -.0676 -.1829
.590 -.1849 -.1849 -.1849
.770 -.1898
.950 -.1779 -.1779 -.1789

BETA (1) = -10.040 ALPHA (3) = 4.100 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1596 -.1596 -.1646
.200 -.1606 -.1636
.410 -.1606 -.0704 -.1587
.590 -.1626 -.1626 -.1626
.770 -.1646
.950 -.1567 -.1547 -.1547

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 373

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (1) = -10.040 ALPHA (4) = 6.190 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1397	-.1397	-.1477
.200	-.1387		-.1447
.410	-.1387	-.0475	-.1387
.590	-.1417	-.1427	-.1427
.770		-.1387	
.950	-.1328	-.1328	-.1338

BETA (1) = -10.040 ALPHA (5) = 8.250 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1201	-.1211	-.1271
.200	-.1221		-.1261
.410	-.1221	-.0188	-.1221
.590	-.1211	-.1201	-.1211
.770		-.1171	
.950	-.1112	-.1122	-.1112

BETA (1) = -10.040 ALPHA (6) = 10.310 Q(PSF) = 42.823 PO/PSF = 2110.0 RUN NO = 15.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1028	-.1058	-.1058
.200	-.1048		-.1048
.410	-.1068	.0197	-.0998
.590	-.1087	-.1048	-.0989
.770		-.1038	
.950	-.0979	-.0919	-.0929

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 374

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (2) = -5.020 ALPHA (1) = .000 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1856	-.1836	-.1866
.200	-.1836		-.1866
.410	-.1826	-.0119	-.1846
.590	-.1876	-.1836	-.1856
.770		-.1866	
.950	-.1796	-.1806	-.1796

BETA (2) = -5.020 ALPHA (2) = 2.040 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1615	-.1605	-.1625
.200	-.1615		-.1645
.410	-.1585	-.0366	-.1615
.590	-.1615	-.1615	-.1635
.770		-.1665	
.950	-.1566	-.1566	-.1546

BETA (2) = -5.020 ALPHA (3) = 4.080 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1398	-.1408	-.1428
.200	-.1398		-.1418
.410	-.1388	-.0377	-.1398
.590	-.1428	-.1398	-.1408
.770		-.1457	
.950	-.1328	-.1348	-.1338

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 375

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (2) = -5.020 ALPHA (4) = 6.170 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1181	-.1161	-.1201
.200	-.1141		-.1191
.410	-.1141	-.0178	-.1161
.590	-.1191	-.1171	-.1201
.770		-.1191	
.950	-.1101	-.1092	-.1092

BETA (2) = -5.020 ALPHA (5) = 8.260 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0893	-.0913	-.0943
.200	-.0883		-.0933
.410	-.0873	-.0178	-.0873
.590	-.0923	-.0913	-.0903
.770		-.0943	
.950	-.0834	-.0844	-.0824

BETA (2) = -5.020 ALPHA (6) = 10.300 Q(PSF) = 42.815 PO/PSF = 2109.9 RUN NO = 14.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0704	-.0684	-.0724
.200	-.0694		-.0734
.410	-.0694	.0555	-.0704
.590	-.0734	-.0714	-.0714
.770		-.0675	
.950	-.0605	-.0595	-.0605

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (3) = .010 ALPHA (1) = .000 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5340

X/CNL

.040	-.1730	-.1710	-.1740
.200	-.1710		-.1760
.410	-.1701	-.0247	-.1740
.590	-.1750	-.1710	-.1720
.770		-.1760	
.950	-.1681	-.1691	-.1691

BETA (3) = .010 ALPHA (2) = 2.050 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1508	-.1528	-.1508
.200	-.1528		-.1558
.410	-.1508	-.0426	-.1558
.590	-.1518	-.1508	-.1528
.770		-.1577	
.950	-.1468	-.1448	-.1438

BETA (3) = .010 ALPHA (3) = 4.090 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1311	-.1311	-.1281
.200	-.1281		-.1331
.410	-.1281	-.0367	-.1321
.590	-.1311	-.1291	-.1321
.770		-.1350	
.950	-.1231	-.1231	-.1211

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 377

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (3) = .010 ALPHA (4) = 6.160 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1045	-.1045	-.1035
.200	-.1054		-.1074
.410	-.1025	-.0148	-.1035
.590	-.1064	-.1035	-.1074
.770		-.1084	
.950	-.0946	-.0966	-.0936

BETA (3) = .010 ALPHA (5) = 8.250 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0770	-.0790	-.0810
.200	-.0800		-.0850
.410	-.0770	.0167	-.0850
.590	-.0810	-.0790	-.0850
.770		-.0840	
.950	-.0701	-.0711	-.0672

BETA (3) = .010 ALPHA (6) = 10.300 Q(PSF) = 42.917 PO/PSF = 2109.9 RUN NO = 13.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0564	-.0564	-.0624
.200	-.0574		-.0584
.410	-.0555	.0554	-.0574
.590	-.0584	-.0564	-.0634
.770		-.0584	
.950	-.0455	-.0495	-.0455

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 378

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (4) = 5.060 ALPHA (1) = -.010 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1892	-.1892	-.1862
.200	-.1882		-.1882
.410	-.1892	-.0584	-.1951
.590	-.1912	-.1882	-.1902
.770		-.1922	
.950	-.1852	-.1852	-.1832

BETA (4) = 5.060 ALPHA (2) = 2.030 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1619	-.1628	-.1638
.200	-.1628		-.1658
.410	-.1619	-.0691	-.1678
.590	-.1628	-.1619	-.1638
.770		-.1668	
.950	-.1579	-.1579	-.1559

BETA (4) = 5.060 ALPHA (3) = 4.090 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1397	-.1397	-.1427
.200	-.1397		-.1476
.410	-.1367	-.0594	-.1466
.590	-.1417	-.1417	-.1427
.770		-.1436	
.950	-.1318	-.1327	-.1318

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 379

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (4) = 5.060 ALPHA (4) = 6.160 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1179	-.1150	-.1179
.200	-.1179		-.1318
.410	-.1150	-.0367	-.1249
.590	-.1199	-.1179	-.1219
.770		-.1199	
.950	-.1070	-.1080	-.1100

BETA (4) = 5.060 ALPHA (5) = 8.250 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0911	-.0892	-.0921
.200	-.0911		-.1060
.410	-.0882	-.0049	-.0981
.590	-.0921	-.0911	-.0941
.770		-.0892	
.950	-.0882	-.0902	-.0832

BETA (4) = 5.060 ALPHA (6) = 10.330 Q(PSF) = 42.885 PO/PSF = 2109.8 RUN NO = 12.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0635	-.0655	-.0665
.200	-.0665		-.0754
.410	-.0615	.0356	-.0714
.590	-.0655	-.0665	-.0714
.770		-.0605	
.950	-.0625	-.0635	-.0605

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 380

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (5) = 10.110 ALPHA (1) = .000 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2069 -.2069 -.2069

.200 -.2069 -.2069 -.2049

.410 -.2019 -.0398 -.2089

.590 -.2059 -.2059 -.2069

.770 -.2069 -.2069

.950 -.1959 -.1989 -.2019

BETA (5) = 10.110 ALPHA (2) = 2.030 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1806 -.1846 -.1846

.200 -.1816 -.1816 -.1806

.410 -.1796 -.0724 -.1856

.590 -.1826 -.1826 -.1846

.770 -.1836 -.1836

.950 -.1737 -.1737 -.1737

BETA (5) = 10.110 ALPHA (3) = 4.080 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1597 -.1607 -.1597

.200 -.1577 -.1607 -.1607

.410 -.1567 -.0784 -.1637

.590 -.1577 -.1597 -.1597

.770 -.1587 -.1587

.950 -.1508 -.1498 -.1508

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 381

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE03)

BETA (5) = 10.110 ALPHA (4) = 6.220 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1368	-.1368	-.1388
.200	-.1349		-.1448
.410	-.1349	-.0654	-.1398
.590	-.1358	-.1378	-.1368
.770		-.1378	
.950	-.1269	-.1299	-.1289

BETA (5) = 10.110 ALPHA (5) = 8.250 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1170	-.1140	-.1160
.200	-.1130		-.1229
.410	-.1110	-.0416	-.1170
.590	-.1160	-.1140	-.1150
.770		-.1150	
.950	-.1081	-.1110	-.1091

BETA (5) = 10.100 ALPHA (6) = 10.320 Q(PSF) = 42.790 PO/PSF = 2109.9 RUN NO = 11.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0934	-.0924	-.0943
.200	-.0953		-.1092
.410	-.0904	-.0119	-.0983
.590	-.0934	-.0914	-.0963
.770		-.0924	
.950	-.0934	-.0904	-.0884

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAOE 382-

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE04) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = 1.0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 4.000 THETAN = .000
PHI-M = 4.000 THETAM = .000

BETA (1) = -10.030 ALPHA (1) = -.010 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2164 -.2154 -.2154
.200 -.2144 -.2154 -.2154
.410 -.2134 -.0397 -.2194
.590 -.2164 -.2134 -.2144
.770 -.2194
.950 -.2084 -.2104 -.2114

BETA (1) = -10.020 ALPHA (2) = 2.010 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1930 -.1900 -.1920
.200 -.1910 -.1940
.410 -.1890 -.0712 -.1980
.590 -.1890 -.1900 -.1930
.770 -.1940
.950 -.1821 -.1811 -.1841

BETA (1) = -10.030 ALPHA (3) = 4.090 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1717 -.1707 -.1717
.200 -.1717 -.1846
.410 -.1677 -.0744 -.1766
.590 -.1697 -.1707 -.1717
.770 -.1756
.950 -.1608 -.1627 -.1637

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 383

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (1) = -10.020 ALPHA (4) = 6.150 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1478	-.1458	-.1478
.200	-.1458		-.1617
.410	-.1468	-.0545	-.1528
.590	-.1488	-.1478	-.1498
.770		-.1548	
.950	-.1419	-.1419	-.1369

BETA (1) = -10.020 ALPHA (5) = 8.220 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1253	-.1243	-.1293
.200	-.1263		-.1401
.410	-.1243	-.0197	-.1322
.590	-.1263	-.1273	-.1283
.770		-.1273	
.950	-.1145	-.1184	-.1145

BETA (1) = -10.020 ALPHA (6) = 10.290 Q(PSF) = 42.878 PO/PSF = 2110.7 RUN NO = 20.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1019	-.1029	-.1059
.200	-.1019		-.1227
.410	-.0999	.0217	-.1128
.590	-.1009	-.1009	-.1059
.770		-.1049	
.950	-.0861	-.0910	-.0920

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (2) = -5.020 ALPHA (1) = -.030 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1913	-.1933	-.1933
.200	-.1923		-.1952
.410	-.1923	-.0187	-.1952
.590	-.1903	-.1883	-.1942
.770		-.1942	
.950	-.1873	-.1883	-.1903

BETA (2) = -5.020 ALPHA (2) = 2.040 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1682	-.1692	-.1702
.200	-.1692		-.1751
.410	-.1672	-.0435	-.1742
.590	-.1672	-.1692	-.1702
.770		-.1722	
.950	-.1603	-.1643	-.1633

BETA (2) = -5.020 ALPHA (3) = 4.070 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1424	-.1444	-.1454
.200	-.1434		-.1553
.410	-.1405	-.0396	-.1504
.590	-.1434	-.1424	-.1464
.770		-.1464	
.950	-.1355	-.1385	-.1395

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 385

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (2) = -5.020 ALPHA (4) = 6.140 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1231	-.1310	-.1241
.200	-.1231		-.1380
.410	-.1221	-.0218	-.1320
.590	-.1261	-.1280	-.1340
.770		-.1290	
.950	-.1181	-.1201	-.1280

BETA (2) = -5.020 ALPHA (5) = 8.270 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0971	-.0961	-.0990
.200	-.0951		-.1189
.410	-.0951	.0138	-.1040
.590	-.0990	-.0961	-.1020
.770		-.1010	
.950	-.0901	-.0881	-.0931

BETA (2) = -5.020 ALPHA (6) = 10.300 Q(PSF) = 42.912 PO/PSF = 2110.7 RUN NO = 19.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0703	-.0693	-.0713
.200	-.0673		-.0891
.410	-.0673	.0564	-.0782
.590	-.0733	-.0723	-.0753
.770		-.0733	
.950	-.0644	-.0634	-.0644

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 386

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFED4)

BETA (3) = .000 ALPHA (1) = -.020 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1787	-.1797	-.1797
.200	-.1787		-.1807
.410	-.1797	-.0296	-.1807
.590	-.1797	-.1807	-.1807
.770		-.1807	
.950	-.1748	-.1777	-.1768

BETA (3) = .000 ALPHA (2) = 2.010 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1554	-.1564	-.1574
.200	-.1544		-.1604
.410	-.1554	-.0445	-.1623
.590	-.1534	-.1524	-.1564
.770		-.1594	
.950	-.1475	-.1544	-.1505

BETA (3) = .000 ALPHA (3) = 4.070 Q(PSF) = 42.893 PO/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1329	-.1358	-.1329
.200	-.1329		-.1408
.410	-.1309	-.0357	-.1408
.590	-.1329	-.1319	-.1378
.770		-.1378	
.950	-.1289	-.1299	-.1299

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 387

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (3) = .000 ALPHA (4) = 6.140 Q(PSF) = 42.893 P0/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1072	-.1062	-.1072
.200	-.1062		-.1201
.410	-.1062	-.0119	-.1122
.590	-.1082	-.1062	-.1102
.770		-.1092	
.950	-.0983	-.1013	-.1022

BETA (3) = .000 ALPHA (5) = 8.240 Q(PSF) = 42.893 P0/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0791	-.0791	-.0781
.200	-.0781		-.0910
.410	-.0791	.0197	-.0851
.590	-.0821	-.0801	-.0801
.770		-.0851	
.950	-.0752	-.0752	-.0742

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.893 P0/PSF = 2110.6 RUN NO = 18.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0604	-.0554	-.0574
.200	-.0584		-.0792
.410	-.0564	.0564	-.0663
.590	-.0584	-.0574	-.0624
.770		-.0633	
.950	-.0534	-.0544	-.0574

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 388

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (4) = 5.050 ALPHA (1) = -.020 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1880	-.1900	-.1880
.200	-.1870		-.1880
.410	-.1890	-.0604	-.1940
.590	-.1890	-.1870	-.1910
.770		-.1900	
.950	-.1870	-.1851	-.1880

BETA (4) = 5.050 ALPHA (2) = 2.010 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1730	-.1671	-.1721
.200	-.1681		-.1760
.410	-.1671	-.0722	-.1770
.590	-.1661	-.1671	-.1721
.770		-.1711	
.950	-.1612	-.1661	-.1632

BETA (4) = 5.050 ALPHA (3) = 4.070 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1415	-.1435	-.1425
.200	-.1435		-.1514
.410	-.1396	-.0614	-.1495
.590	-.1425	-.1425	-.1435
.770		-.1455	
.950	-.1336	-.1386	-.1356

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 389

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (4) = 5.050 ALPHA (4) = 6.160 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1171	-.1171	-.1181
.200	-.1191		-.1300
.410	-.1161	-.0387	-.1251
.590	-.1171	-.1201	-.1171
.770		-.1211	
.950	-.1122	-.1132	-.1132

BETA (4) = 5.050 ALPHA (5) = 8.210 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0911	-.0891	-.0891
.200	-.0920		-.1079
.410	-.0891	-.0069	-.0980
.590	-.0901	-.0901	-.0901
.770		-.0930	
.950	-.0851	-.0851	-.0891

BETA (4) = 5.050 ALPHA (6) = 10.290 Q(PSF) = 42.915 PO/PSF = 2110.5 RUN NO = 17.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0641	-.0622	-.0661
.200	-.0651		-.0849
.410	-.0612	.0276	-.0681
.590	-.0641	-.0661	-.0671
.770		-.0671	
.950	-.0572	-.0582	-.0602

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2085	-.2065	-.2075
.200	-.2065		-.2114
.410	-.2055	-.0734	-.2105
.590	-.2085	-.2075	-.2065
.770		-.2085	
.950	-.2015	-.2035	-.2035

BETA (5) = 10.080 ALPHA (2) = 2.070 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1871	-.1852	-.1871
.200	-.1862		-.1921
.410	-.1842	-.0956	-.1901
.590	-.1852	-.1881	-.1862
.770		-.1881	
.950	-.1792	-.1812	-.1812

BETA (5) = 10.090 ALPHA (3) = 4.100 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1602	-.1632	-.1612
.200	-.1612		-.1711
.410	-.1592	-.0905	-.1622
.590	-.1612	-.1612	-.1602
.770		-.1641	
.950	-.1572	-.1562	-.1562

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 391

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE04)

BETA (5) = 10.090 ALPHA (4) = 6.160 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1365	-.1375	-.1395
.200	-.1365		-.1464
.410	-.1356	-.0732	-.1425
.590	-.1375	-.1375	-.1385
.770		-.1385	
.950	-.1346	-.1346	-.1316

BETA (5) = 10.090 ALPHA (5) = 8.220 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1102	-.1132	-.1102
.200	-.1112		-.1221
.410	-.1092	-.0427	-.1152
.590	-.1132	-.1122	-.1132
.770		-.1122	
.950	-.1042	-.1052	-.1033

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.775 PO/PSF = 2110.7 RUN NO = 16.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0883	-.0883	-.0902
.200	-.0902		-.1051
.410	-.0873	-.0119	-.0922
.590	-.0873	-.0892	-.0892
.770		-.0863	
.950	-.0853	-.0863	-.0843

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 392

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE05) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPCBRK = 25.000
PHI-N = 6.000 THETAN = .000
PHI-M = 6.000 THETAM = 1.100

BETA (1) = -10.020 ALPHA (1) = .020 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2181 -.2161 -.2171
.200 -.2201 -.2241
.410 -.2151 -.0406 -.2241
.590 -.2171 -.2142 -.2181
.770 -.2211
.950 -.2112 -.2122 -.2122

BETA (1) = -10.020 ALPHA (2) = 2.070 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1923 -.1933 -.1953
.200 -.1914 -.2023
.410 -.1923 -.0734 -.2013
.590 -.1953 -.1933 -.1953
.770 -.1963
.950 -.1844 -.1834 -.1854

BETA (1) = -10.020 ALPHA (3) = 4.150 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1664 -.1655 -.1684
.200 -.1674 -.1764
.410 -.1645 -.0753 -.1714
.590 -.1664 -.1664 -.1664
.770 -.1694
.950 -.1575 -.1555 -.1565

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 393

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (1) = -10.020 ALPHA (4) = 6.210 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1423	-.1383	-.1423
.200	-.1383		-.1553
.410	-.1373	-.0527	-.1463
.590	-.1423	-.1393	-.1433
.770		-.1443	
.950	-.1284	-.1274	-.1294

BETA (1) = -10.020 ALPHA (5) = 8.290 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1147	-.1137	-.1167
.200	-.1147		-.1345
.410	-.1127	-.0227	-.1206
.590	-.1167	-.1167	-.1176
.770		-.1206	
.950	-.0998	-.1018	-.1038

BETA (1) = -10.020 ALPHA (6) = 10.360 Q(PSF) = 42.853 PO/PSF = 2110.8 RUN NO = 25.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0890	-.0870	-.0910
.200	-.0890		-.1058
.410	-.0880	.0158	-.0949
.590	-.0910	-.0900	-.0939
.770		-.0930	
.950	-.0732	-.0752	-.0781

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (2) = -5.010 ALPHA (1) = .010 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1929	-.1929	-.1929
.200	-.1929		-.1929
.410	-.1910	-.0158	-.1949
.590	-.1929	-.1920	-.1949
.770		-.1949	
.950	-.1910	-.1929	-.1890

BETA (2) = -5.010 ALPHA (2) = 2.090 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1673	-.1663	-.1673
.200	-.1663		-.1722
.410	-.1653	-.0425	-.1732
.590	-.1663	-.1663	-.1683
.770		-.1722	
.950	-.1603	-.1653	-.1554

BETA (2) = -5.010 ALPHA (3) = 4.180 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1407	-.1407	-.1397
.200	-.1397		-.1476
.410	-.1387	-.0396	-.1476
.590	-.1407	-.1397	-.1436
.770		-.1446	
.950	-.1337	-.1347	-.1288

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 395

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (2) = -5.010 ALPHA (4) = 6.190 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1135	-.1135	-.1125
.200	-.1154		-.1283
.410	-.1125	-.0197	-.1204
.590	-.1164	-.1154	-.1154
.770		-.1204	
.950	-.1026	-.1075	-.1016

BETA (2) = -5.010 ALPHA (5) = 9.260 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0823	-.0873	-.0843
.200	-.0883		-.1022
.410	-.0843	.0089	-.0923
.590	-.0893	-.0883	-.0903
.770		-.0932	
.950	-.0764	-.0784	-.0734

BETA (2) = -5.010 ALPHA (6) = 10.340 Q(PSF) = 42.943 PO/PSF = 2110.7 RUN NO = 24.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0581	-.0561	-.0571
.200	-.0561		-.0788
.410	-.0522	.0512	-.0601
.590	-.0601	-.0621	-.0630
.770		-.0601	
.950	-.0463	-.0473	-.0473

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (3) = .020 ALPHA (1) = .010 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1808	-.1798	-.1818
.200	-.1808		-.1838
.410	-.1798	-.0276	-.1877
.590	-.1798	-.1808	-.1818
.770		-.1838	
.950	-.1779	-.1828	-.1779

BETA (3) = .020 ALPHA (2) = 2.060 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1571	-.1561	-.1571
.200	-.1551		-.1580
.410	-.1551	-.0425	-.1640
.590	-.1571	-.1551	-.1561
.770		-.1610	
.950	-.1511	-.1531	-.1492

BETA (3) = .020 ALPHA (3) = 4.110 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1318	-.1328	-.1328
.200	-.1288		-.1338
.410	-.1308	-.0367	-.1397
.590	-.1318	-.1318	-.1348
.770		-.1368	
.950	-.1239	-.1259	-.1219

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 397

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (3) = .020 ALPHA (4) = 6.220 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1008	-.0998	-.0998
.200	-.0998		-.1147
.410	-.0998	-.0138	-.1068
.590	-.1018	-.1028	-.1048
.770		-.1068	
.950	-.0900	-.0949	-.0900

BETA (3) = .020 ALPHA (5) = 8.270 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0742	-.0712	-.0722
.200	-.0752		-.0880
.410	-.0732	.0177	-.0791
.590	-.0732	-.0742	-.0761
.770		-.0771	
.950	-.0643	-.0692	-.0633

BETA (3) = .020 ALPHA (6) = 10.340 Q(PSF) = 42.960 PO/PSF = 2110.7 RUN NO = 23.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0444	-.0454	-.0474
.200	-.0464		-.0661
.410	-.0424	.0582	-.0493
.590	-.0444	-.0434	-.0444
.770		-.0474	
.950	-.0414	-.0454	-.0444

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (4) = 5.030 ALPHA (1) = .020 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1957	-.1927	-.1927
.200	-.1927		-.1927
.410	-.1917	-.0603	-.1957
.590	-.1907	-.1907	-.1917
.770		-.1927	
.950	-.1898	-.1917	-.1888

BETA (4) = 5.030 ALPHA (2) = 2.050 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1672	-.1662	-.1652
.200	-.1652		-.1633
.410	-.1652	-.0692	-.1702
.590	-.1642	-.1642	-.1662
.770		-.1662	
.950	-.1633	-.1652	-.1613

BETA (4) = 5.030 ALPHA (3) = 4.120 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1416	-.1376	-.1406
.200	-.1406		-.1396
.410	-.1386	-.0604	-.1456
.590	-.1396	-.1416	-.1386
.770		-.1495	
.950	-.1356	-.1436	-.1327

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 399

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (4) = 5.030 ALPHA (4) = 6.190 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1147	-.1137	-.1137
.200	-.1157		-.1207
.410	-.1137	-.0376	-.1207
.590	-.1137	-.1137	-.1157
.770		-.1187	
.950	-.1058	-.1137	-.1098

BETA (4) = 5.030 ALPHA (5) = 8.260 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0871	-.0832	-.0851
.200	-.0861		-.0980
.410	-.0841	-.0059	-.0891
.590	-.0851	-.0861	-.0871
.770		-.0911	
.950	-.0802	-.0841	-.0812

BETA (4) = 5.030 ALPHA (6) = 10.340 Q(PSF) = 42.922 PO/PSF = 2110.6 RUN NO = 22.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0554	-.0524	-.0544
.200	-.0554		-.0712
.410	-.0505	.0296	-.0564
.590	-.0554	-.0554	-.0574
.770		-.0554	
.950	-.0495	-.0524	-.0485

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 400

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (5) = 10.060 ALPHA (1) = .000 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2147	-.2167	-.2147
.200	-.2147		-.2128
.410	-.2118	-.0762	-.2157
.590	-.2137	-.2128	-.2137
.770		-.2147	
.950	-.2098	-.2108	-.2108

BETA (5) = 10.060 ALPHA (2) = 2.080 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1863	-.1893	-.1903
.200	-.1873		-.1873
.410	-.1873	-.0951	-.1893
.590	-.1913	-.1873	-.1893
.770		-.1873	
.950	-.1774	-.1853	-.1843

BETA (5) = 10.060 ALPHA (3) = 4.200 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1616	-.1616	-.1606
.200	-.1625		-.1606
.410	-.1586	-.0912	-.1625
.590	-.1606	-.1586	-.1616
.770		-.1625	
.950	-.1516	-.1576	-.1576

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 401

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE05)

BETA (5) = 10.060 ALPHA (4) = 6.210 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1380	-.1370	-.1380
.200	-.1370		-.1351
.410	-.1351	-.0735	-.1370
.590	-.1351	-.1361	-.1361
.770		-.1390	
.950	-.1301	-.1331	-.1341

BETA (5) = 10.060 ALPHA (5) = 8.320 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1079	-.1079	-.1089
.200	-.1089		-.1109
.410	-.1069	-.0485	-.1089
.590	-.1099	-.1099	-.1089
.770		-.1119	
.950	-.1030	-.1069	-.1079

BETA (5) = 10.050 ALPHA (6) = 10.370 Q(PSF) = 42.862 PO/PSF = 2110.7 RUN NO = 21.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0802	-.0822	-.0832
.200	-.0822		-.0861
.410	-.0772	-.0188	-.0822
.590	-.0822	-.0822	-.0842
.770		-.0851	
.950	-.0762	-.0802	-.0772

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = .000
 BDFLAP = .000 SPDBRK = 25.000
 PHI-N = 8.000 THETAN = 1.000
 PHI-M = 8.000 THETAM = 1.100

BETA (1) = -10.050 ALPHA (1) = .020 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2300 -.2320 -.2310
 .200 -.2320 -.2300
 .410 -.2290 -.0416 -.2329
 .590 -.2310 -.2290 -.2290
 .770 -.2310
 .950 -.2300 -.2280 -.2290

BETA (1) = -10.050 ALPHA (2) = 2.100 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2060 -.2070 -.2070
 .200 -.2070 -.2041
 .410 -.2051 -.0743 -.2140
 .590 -.2070 -.2051 -.2060
 .770 -.2080
 .950 -.2041 -.2031 -.2021

BETA (1) = -10.060 ALPHA (3) = 4.170 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1783 -.1793 -.1803
 .200 -.1793 -.1783
 .410 -.1773 -.0773 -.1872
 .590 -.1813 -.1763 -.1803
 .770 -.1813
 .950 -.1763 -.1773 -.1714

DATE 20 OCT 78

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 403

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (1) = -10.060 ALPHA (4) = 6.210 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1532	-.1492	-.1512
.200	-.1502		-.1492
.410	-.1522	-.0494	-.1621
.590	-.1542	-.1522	-.1542
.770		-.1571	
.950	-.1462	-.1492	-.1433

BETA (1) = -10.060 ALPHA (5) = 8.300 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1234	-.1205	-.1225
.200	-.1225		-.1205
.410	-.1205	-.0138	-.1294
.590	-.1225	-.1225	-.1225
.770		-.1264	
.950	-.1215	-.1225	-.1185

BETA (1) = -10.060 ALPHA (6) = 10.370 Q(PSF) = 42.923 PO/PSF = 2114.2 RUN NO = 30.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0919	-.0929	-.0939
.200	-.0919		-.0909
.410	-.0890	.0237	-.0949
.590	-.0929	-.0939	-.0939
.770		-.1008	
.950	-.0969	-.0969	-.0890

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 404

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (2) = -5.030 ALPHA (1) = .010 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1998	-.2018	-.1998
.200	-.1988		-.1978
.410	-.1988	-.0168	-.2027
.590	-.2008	-.1988	-.1988
.770		-.2008	
.950	-.1998	-.1988	-.1988

BETA (2) = -5.040 ALPHA (2) = 2.070 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1702	-.1692	-.1692
.200	-.1692		-.1682
.410	-.1692	-.0425	-.1731
.590	-.1692	-.1692	-.1692
.770		-.1731	
.950	-.1682	-.1692	-.1711

BETA (2) = -5.040 ALPHA (3) = 4.180 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1408	-.1408	-.1408
.200	-.1408		-.1388
.410	-.1388	-.0406	-.1438
.590	-.1418	-.1408	-.1418
.770		-.1458	
.950	-.1378	-.1408	-.1428

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 405

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (2) = -5.040 ALPHA (4) = 6.210 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1122	-.1122	-.1112
.200	-.1112		-.1062
.410	-.1082	-.0198	-.1141
.590	-.1161	-.1122	-.1151
.770		-.1191	
.950	-.1052	-.1122	-.1161

BETA (2) = -5.030 ALPHA (5) = 8.290 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0772	-.0752	-.0752
.200	-.0772		-.0742
.410	-.0742	.0158	-.0802
.590	-.0851	-.0772	-.0792
.770		-.0851	
.950	-.0673	-.0722	-.0762

BETA (2) = -5.040 ALPHA (6) = 10.340 Q(PSF) = 42.887 PO/PSF = 2114.0 RUN NO = 29.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0455	-.0435	-.0435
.200	-.0445		-.0395
.410	-.0386	.0573	-.0406
.590	-.0495	-.0445	-.0475
.770		-.0514	
.950	-.0307	-.0376	-.0386

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 406

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1870	-.1860	-.1860
.200	-.1850		-.1840
.410	-.1830	-.0336	-.1860
.590	-.1810	-.1830	-.1870
.770		-.1880	
.950	-.1850	-.1860	-.1850

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1594	-.1584	-.1604
.200	-.1584		-.1575
.410	-.1575	-.0455	-.1614
.590	-.1594	-.1575	-.1594
.770		-.1634	
.950	-.1525	-.1594	-.1614

BETA (3) = -.010 ALPHA (3) = 4.120 Q(PSF) = 42.910 PO/PSF = 2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1317	-.1298	-.1337
.200	-.1308		-.1268
.410	-.1298	-.0356	-.1327
.590	-.1327	-.1288	-.1298
.770		-.1337	
.950	-.1218	-.1308	-.1347

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 407

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.910 PO/PSF = .2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1010	-.1030	-.1020
.200	-.0990		-.0971
.410	-.0961	-.0148	-.1000
.590	-.1030	-.1010	-.1000
.770		-.1040	
.950	-.0891	-.1020	-.1030

BETA (3) = -.010 ALPHA (5) = 8.280 Q(PSF) = 42.910 PO/PSF = .2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0663	-.0663	-.0673
.200	-.0643		-.0624
.410	-.0624	.0168	-.0624
.590	-.0733	-.0683	-.0683
.770		-.0743	
.950	-.0475	-.0643	-.0663

BETA (3) = -.010 ALPHA (6) = 10.350 Q(PSF) = 42.910 PO/PSF = .2114.0 RUN NO = 28.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0326	-.0346	-.0326
.200	-.0346		-.0306
.410	-.0296	.0592	-.0276
.590	-.0405	-.0346	-.0365
.770		-.0405	
.950	-.0089	-.0257	-.0286

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 408

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (4) = 5.020 ALPHA (1) = .000 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1970	-.1960	-.1950
.200	-.1970	-.1930	
.410	-.1911	-.0960	-.1960
.590	-.1920	-.1930	-.1930
.770		-.1940	
.950	-.1891	-.1940	-.1911

BETA (4) = 5.020 ALPHA (2) = 2.070 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1671	-.1681	-.1651
.200	-.1651		-.1651
.410	-.1612	-.0939	-.1661
.590	-.1661	-.1651	-.1651
.770		-.1671	
.950	-.1582	-.1651	-.1661

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1377	-.1347	-.1357
.200	-.1367		-.1317
.410	-.1327	-.0723	-.1337
.590	-.1367	-.1357	-.1367
.770		-.1406	
.950	-.1218	-.1357	-.1367

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 409

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (4) = 5.020 ALPHA (4) = 6.180 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1058	-.1069	-.1058
.200	-.1048		-.1029
.410	-.1019	-.0455	-.1039
.590	-.1128	-.1078	-.1068
.770		-.1128	
.950	-.0841	-.1029	-.1058

BETA (4) = 5.020 ALPHA (5) = 8.270 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0712	-.0692	-.0731
.200	-.0712		-.0662
.410	-.0672	-.0109	-.0652
.590	-.0791	-.0721	-.0731
.770		-.0801	
.950	-.0445	-.0623	-.0672

BETA (4) = 5.020 ALPHA (6) = 10.370 Q(PSF) = 42.940 PO/PSF = 2113.9 RUN NO = 27.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0345	-.0355	-.0355
.200	-.0326		-.0336
.410	-.0326	.0286	-.0276
.590	-.0484	-.0395	-.0395
.770		-.0434	
.950	-.0010	-.0197	-.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 410

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2130	-.2100	-.2120
.200	-.2110		-.2120
.410	-.2080	-.4477	-.2090
.590	-.2100	-.2100	-.2090
.770		-.2120	
.950	-.2060	-.2100	-.2110

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BETA (5) = 10.070 ALPHA (2) = 2.050 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640 . .

X/CNL

.040	-.1818	-.1818	-.1818
.200	-.1789		-.1799
.410	-.1779	-.3390	-.1799
.590	-.1848	-.1789	-.1799
.770		-.1838	
.950	-.1660	-.1769	-.1789

BETA (5) = 10.070 ALPHA (3) = 4.110 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1494	-.1534	-.1534
.200	-.1514		-.1484
.410	-.1504	-.2534	-.1494
.590	-.1573	-.1534	-.1514
.770		-.1564	
.950	-.1277	-.1405	-.1465

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 411

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE06)

BETA (5) = 10.070 ALPHA (4) = 6.230 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1157	-.1166	-.1166
.200	-.1147		-.1137
.410	-.1147	-.1809	-.1137
.590	-.1285	-.1186	-.1196
.770		-.1265	
.950	-.0870	-.1008	-.1068

BETA (5) = 10.070 ALPHA (5) = 8.280 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0842	-.0861	-.0871
.200	-.0881		-.0861
.410	-.0861	-.1248	-.0802
.590	-.1010	-.0931	-.0901
.770		-.0960	
.950	-.0495	-.0614	-.0683

BETA (5) = 10.070 ALPHA (6) = 10.340 Q(PSF) = 42.935 PO/PSF = 2114.1 RUN NO = 26.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0543	-.0533	-.0543
.200	-.0583		-.0533
.410	-.0553	-.0691	-.0464
.590	-.0741	-.0602	-.0593
.770		-.0682	
.950	-.0148	-.0207	-.0286

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = .000
 SDFLAP = .000 SPDBRK = 25.000
 PHI-N = 10.000 THETAN = 1.300
 PHI-M = 10.000 THETAM = 1.600

BETA (1) = -10.070 ALPHA (1) = .000 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2317 -.2298 -.2317
 .200 -.2317 -.2456
 .410 -.2268 -.2228 -.2327
 .590 -.2288 -.2248 -.2288
 .770 -.2317
 .950 -.2248 -.2218 -.2228

BETA (1) = -10.070 ALPHA (2) = 2.060 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2031 -.2021 -.2041
 .200 -.2031 -.2219
 .410 -.1972 -.1932 -.2051
 .590 -.2011 -.1982 -.2021
 .770 -.2071
 .950 -.1932 -.1922 -.1942

BETA (1) = -10.070 ALPHA (3) = 4.120 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1751 -.1722 -.1761
 .200 -.1712 -.1969
 .410 -.1672 -.1623 -.1771
 .590 -.1682 -.1662 -.1712
 .770 -.1751
 .950 -.1623 -.1642 -.1613

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 413

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (1) = -10.070 ALPHA (4) = 6.180 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1417	-.1407	-.1447
.200	-.1427		-.1694
.410	-.1367	-.1338	-.1476
.590	-.1397	-.1397	-.1427
.770		-.1457	
.950	-.1278	-.1328	-.1288

BETA (1) = -10.070 ALPHA (5) = 8.270 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1080	-.1060	-.1100
.200	-.1080		-.1417
.410	-.0981	-.0991	-.1090
.590	-.1060	-.1050	-.1070
.770		-.1130	
.950	-.0981	-.1011	-.0961

BETA (1) = -10.070 ALPHA (6) = 10.330 Q(PSF) = 42.880 PO/PSF = 2114.2 RUN NO = 35.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0752	-.0742	-.0782
.200	-.0752		-.1148
.410	-.0663	-.0663	-.0703
.590	-.0732	-.0732	-.0723
.770		-.0802	
.950	-.0742	-.0762	-.0723

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 414

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (2) = -5.050 ALPHA (1) = -.010 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1956	-.1966	-.1976
.200	-.1976		-.2055
.410	-.1956	-.1936	-.1966
.590	-.1966	-.1936	-.1956
.770		-.1986	
.950	-.1936	-.1946	-.1907

BETA (2) = -5.050 ALPHA (2) = 2.090 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1684	-.1674	-.1684
.200	-.1674		-.1643
.410	-.1674	-.1635	-.1714
.590	-.1674	-.1655	-.1684
.770		-.1714	
.950	-.1664	-.1645	-.1615

BETA (2) = -5.040 ALPHA (3) = 4.090 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1375	-.1345	-.1365
.200	-.1365		-.1582
.410	-.1305	-.1276	-.1385
.590	-.1345	-.1325	-.1335
.770		-.1404	
.950	-.1276	-.1276	-.1325

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 415

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (2) = -5.040 ALPHA (4) = 6.200 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1020	-.0990	-.1000
.200	-.1029		-.1267
.410	-.0970	-.0911	-.1010
.590	-.1039	-.0990	-.1020
.770		-.1069	
.950	-.0901	-.0930	-.1020

BETA (2) = -5.040 ALPHA (5) = 8.270 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0642	-.0623	-.0642
.200	-.0623		-.0939
.410	-.0544	-.0524	-.0503
.590	-.0662	-.0633	-.0662
.770		-.0712	
.950	-.0494	-.0603	-.0542

BETA (2) = -5.040 ALPHA (6) = 10.310 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 34.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0237	-.0227	-.0227
.200	-.0227		-.0623
.410	-.0148	-.0138	-.0158
.590	-.0326	-.0257	-.0267
.770		-.0356	
.950	-.0059	-.0198	-.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 416

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1852	-.1842	-.1882
.200	-.1833		-.1842
.410	-.1823	-.1773	-.1862
.590	-.1823	-.1842	-.1823
.770		-.1833	
.950	-.1793	-.1823	-.1783

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1574	-.1564	-.1584
.200	-.1534		-.1593
.410	-.1534	-.1514	-.1643
.590	-.1544	-.1534	-.1544
.770		-.1574	
.950	-.1485	-.1534	-.1554

BETA (3) = .000 ALPHA (3) = 4.080 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1239	-.1229	-.1259
.200	-.1229		-.1318
.410	-.1199	-.1179	-.1288
.590	-.1249	-.1209	-.1239
.770		-.1279	
.950	-.1130	-.1189	-.1249

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 417

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (3) = .000 ALPHA (4) = 6.170 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0909	-.0889	-.0879
.200	-.0879		-.0978
.410	-.0840	-.0840	-.0919
.590	-.0929	-.0879	-.0889
.770		-.0919	
.950	-.0701	-.0860	-.0889

BETA (3) = .000 ALPHA (5) = 8.290 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0493	-.0493	-.0513
.200	-.0493		-.0710
.410	-.0454	-.0424	-.0463
.590	-.0552	-.0533	-.0513
.770		-.0592	
.950	-.0266	-.0444	-.0493

BETA (3) = .000 ALPHA (6) = 10.350 Q(PSF) = 42.928 PO/PSF = 2114.1 RUN NO = 33.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0128	-.0119	-.0128
.200	-.0119		-.0386
.410	-.0049	-.0029	-.0049
.590	-.0188	-.0128	-.0138
.770		-.0218	
.950	.0187	-.0049	-.0069

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 418

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (4) = 5.030 ALPHA (1) = -.010 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1964	-.1973	-.1983
.200	-.1954		-.1934
.410	-.1904	-.1894	-.1934
.590	-.1924	-.1904	-.1924
.770		-.1934	
.950	-.1864	-.1924	-.1973

BETA (4) = 5.030 ALPHA (2) = 2.010 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1633	-.1653	-.1672
.200	-.1623		-.1603
.410	-.1573	-.1554	-.1613
.590	-.1633	-.1593	-.1603
.770		-.1633	
.950	-.1455	-.1583	-.1623

BETA (4) = 5.030 ALPHA (3) = 4.100 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1338	-.1308	-.1348
.200	-.1308		-.1308
.410	-.1258	-.1239	-.1258
.590	-.1338	-.1298	-.1288
.770		-.1348	
.950	-.1070	-.1239	-.1288

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 419

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (4) = 5.030 ALPHA (4) = 6.170 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0971	-.0941	-.1001
.200	-.0951		-.0951
.410	-.0882	-.0882	-.0892
.590	-.1020	-.0951	-.0941
.770		-.1030	
.950	-.0624	-.0862	-.0892

BETA (4) = 5.030 ALPHA (5) = 8.230 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0594	-.0565	-.0584
.200	-.0584		-.0624
.410	-.0505	-.0495	-.0465
.590	-.0644	-.0584	-.0584
.770		-.0673	
.950	-.0188	-.0426	-.0465

BETA (4) = 5.030 ALPHA (6) = 10.310 Q(PSF) = 42.877 PO/PSF = 2114.0 RUN NO = 32.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0188	-.0148	-.0198
.200	-.0198		-.0257
.410	-.0109	-.0079	-.0049
.590	-.0326	-.0208	-.0208
.770		-.0287	
.950	.0266	.0069	-.0010

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 420

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (5) = 10.110 ALPHA (1) = .000 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2172	-.2152	-.2192
.200	-.2152		-.2142
.410	-.2113	-.2132	-.2142
.590	-.2162	-.2162	-.2162
.770		-.2162	
.950	-.2043	-.2053	-.2113

BETA (5) = 10.110 ALPHA (2) = 2.040 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1825	-.1844	-.1874
.200	-.1825		-.1825
.410	-.1755	-.1765	-.1795
.590	-.1825	-.1805	-.1805
.770		-.1864	
.950	-.1587	-.1686	-.1745

BETA (5) = 10.110 ALPHA (3) = 4.100 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1476	-.1476	-.1506
.200	-.1486		-.1447
.410	-.1417	-.1387	-.1447
.590	-.1556	-.1447	-.1486
.770		-.1546	
.950	-.1149	-.1298	-.1338

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 421

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE07)

BETA (5) = 10.110 ALPHA (4) = 6.210 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1110	-.1100	-.1130
.200	-.1150		-.1091
.410	-.1031	-.1031	-.1071
.590	-.1259	-.1120	-.1110
.770		-.1190	
.950	-.0674	-.0803	-.0892

BETA (5) = 10.110 ALPHA (5) = 8.250 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0762	-.0782	-.0772
.200	-.0792		-.0723
.410	-.0703	-.0663	-.0723
.590	-.0960	-.0822	-.0812
.770		-.0871	
.950	-.0297	-.0366	-.0445

BETA (5) = 10.100 ALPHA (6) = 10.330 Q(PSF) = 42.858 PO/PSF = 2114.1 RUN NO = 31.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0386	-.0406	-.0416
.200	-.0435		-.0346
.410	-.0366	-.0287	-.0287
.590	-.0623	-.0465	-.0465
.770		-.0554	
.950	.0078	.0039	.0000

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 422

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 15.000 THETAN = 2.000
PHI-M = 15.000 THETAM = 2.400

BETA (1) = -10.070 ALPHA (1) = .010 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2505 -.2515 -.2505
.200 -.2535 -.2475
.410 -.2366 -.2287 -.2376
.590 -.2346 -.2317 -.2337
.770 -.2356
.950 -.2366 -.2356 -.2356

BETA (1) = -10.070 ALPHA (2) = 2.090 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2200 -.2210 -.2210
.200 -.2210 -.2259
.410 -.2061 -.1972 -.2071
.590 -.2051 -.2032 -.2032
.770 -.2041
.950 -.2081 -.2051 -.2032

BETA (1) = -10.070 ALPHA (3) = 4.130 Q(PSF) = 42.867 PO/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1857 -.1877 -.1877
.200 -.1906 -.2036
.410 -.1718 -.1658 -.1738
.590 -.1708 -.1688 -.1708
.770 -.1728
.950 -.1777 -.1718 -.1708

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 423

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (1) = -10.070 ALPHA (4) = 6.220 Q(PSF) = 42.867 P0/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1529	-.1549	-.1529
.200	-.1549		-.1807
.410	-.1370	-.1310	-.1410
.590	-.1370	-.1350	-.1340
.770		-.1400	
.950	-.1400	-.1360	-.1330

BETA (1) = -10.080 ALPHA (5) = 8.300 Q(PSF) = 42.867 P0/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1196	-.0978	-.1492
.200	-.0949		-.1038
.410	-.1077	-.1227	-.0978
.590	-.0870	-.1038	-.0870
.770		-.0810	
.950	.0889	-.1117	-.1156

BETA (1) = -10.070 ALPHA (6) = 10.360 Q(PSF) = 42.867 P0/PSF = 2125.6 RUN NO = 156.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0722	-.0742	-.0732
.200	-.0742		-.1207
.410	-.0574	-.0524	-.0594
.590	-.0772	-.0613	-.0604
.770		-.0633	
.950	-.0307	-.0227	-.0247

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (2) = -5.050 ALPHA (1) = .020 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2118	-.2128	-.2138
.200	-.2118		-.1999
.410	-.1910	-.1821	-.1831
.590	-.1910	-.1900	-.1890
.770		-.1950	
.950	-.2068	-.2009	-.1940

BETA (2) = -5.050 ALPHA (2) = 2.070 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1790	-.1780	-.1770
.200	-.1740		-.1691
.410	-.1542	-.1473	-.1513
.590	-.1572	-.1562	-.1552
.770		-.1602	
.950	-.1711	-.1651	-.1631

BETA (2) = -5.050 ALPHA (3) = 4.160 Q(PSF) = 42.923 PO/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1396	-.1396	-.1347
.200	-.1367		-.1357
.410	-.1179	-.1119	-.1159
.590	-.1169	-.1179	-.1179
.770		-.1238	
.950	-.1367	-.1278	-.1347

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 425

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (2) = -5.050 ALPHA (4) = 6.240 Q(PSF) = 42.923 P0/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0991	-.1001	-.0971
.200	-.0971		-.1051
.410	-.0793	-.0733	-.0773
.590	-.0773	-.0813	-.0803
.770		-.0862	
.950	-.0961	-.0892	-.0951

BETA (2) = -5.050 ALPHA (5) = 8.280 Q(PSF) = 42.923 P0/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0573	-.0553	-.0563
.200	-.0563		-.0731
.410	-.0356	-.0316	-.0366
.590	-.0385	-.0375	-.0395
.770		-.0445	
.950	-.0524	-.0464	-.0524

BETA (2) = -5.050 ALPHA (6) = 10.340 Q(PSF) = 42.923 P0/PSF = 2125.5 RUN NO = 157.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0138	-.0128	-.0128
.200	-.0118		-.0425
.410	.0078	.0068	.0088
.590	.0009	.0029	.0019
.770		-.0049	
.950	.0000	.0000	-.0029

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1991	-.2031	-.2070
.200	-.1941		-.1832
.410	-.1743	-.1723	-.1783
.590	-.1783	-.1733	-.1733
.770		-.1753	
.950	-.1892	-.1832	-.1822

BETA (3) = .000 ALPHA (2) = 2.070 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1627	-.1637	-.1687
.200	-.1607		-.1498
.410	-.1369	-.1339	-.1399
.590	-.1439	-.1409	-.1409
.770		-.1419	
.950	-.1558	-.1488	-.1498

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1257	-.1277	-.1306
.200	-.1227		-.1188
.410	-.1000	-.0960	-.1029
.590	-.1069	-.1039	-.1039
.770		-.1079	
.950	-.1227	-.1158	-.1158

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 427

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (3) = .000 ALPHA (4) = 6.200 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0873	-.0883	-.0902
.200	-.0843		-.0833
.410	-.0615	-.0575	-.0625
.590	-.0674	-.0664	-.0664
.770		-.0704	
.950	-.0863	-.0783	-.0813

BETA (3) = .000 ALPHA (5) = 8.280 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0455	-.0445	-.0475
.200	-.0445		-.0494
.410	-.0208	-.0217	-.0208
.590	-.0277	-.0257	-.0257
.770		-.0306	
.950	-.0455	-.0386	-.0415

BETA (3) = .000 ALPHA (6) = 10.340 Q(PSF) = 42.883 PO/PSF = 2125.4 RUN NO = 155.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0039	-.0039	-.0069
.200	-.0010		-.0138
.410	.0167	.0217	.0227
.590	.0088	.0157	.0148
.770		.0059	
.950	.0059	.0078	.0029

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 428

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (4) = 5.000 ALPHA (1) = .000 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2536	-.2050	-.2100
.200	-.2050		-.1981
.410	-.1783	-.1813	-.1852
.590	-.1833	-.1833	-.1842
.770		-.1852	
.950	-.1961	-.1872	-.1882

BETA (4) = 5.000 ALPHA (2) = 2.070 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2170	-.1705	-.1744
.200	-.1714		-.1625
.410	-.1417	-.1447	-.1477
.590	-.1496	-.1477	-.1477
.770		-.1496	
.950	-.1625	-.1506	-.1536

BETA (4) = 5.000 ALPHA (3) = 4.130 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1716	-.1349	-.1378
.200	-.1319		-.1210
.410	-.1031	-.1031	-.1091
.590	-.1111	-.1101	-.1101
.770		-.1150	
.950	-.1240	-.1170	-.1190

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 429

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (4) = 5.000 ALPHA (4) = 6.200 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1210	-.1012	-.0972
.200	-.0843		-.0843
.410	-.0654	-.0664	-.0694
.590	-.0744	-.0714	-.0694
.770		-.0783	
.950	-.0783	-.0764	-.0793

BETA (4) = 5.000 ALPHA (5) = 8.260 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0801	-.0573	-.0573
.200	-.0464		-.0405
.410	-.0217	-.0207	-.0306
.590	-.0415	-.0296	-.0296
.770		-.0395	
.950	-.0217	-.0178	-.0247

BETA (4) = 5.000 ALPHA (6) = 10.370 Q(PSF) = 42.867 PO/PSF = 2125.4 RUN NO = 158.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0436	-.0148	-.0129
.200	-.0049		.0059
.410	.0128	.0198	.0098
.590	-.0119	.0118	.0079
.770		.0019	
.950	.0376	.0505	.0465

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 430

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (5) = 10.050 ALPHA (1) = .000 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3302	-.2310	-.2370
.200	-.2201		-.2251
.410	-.2112	-.2112	-.2112
.590	-.2211	-.2132	-.2112
.770		-.2132	
.950	-.2280	-.2092	-.2072

BETA (5) = 10.050 ALPHA (2) = 2.080 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2931	-.1941	-.1980
.200	-.1822		-.1851
.410	-.1743	-.1713	-.1752
.590	-.1881	-.1743	-.1752
.770		-.1752	
.950	-.1861	-.1624	-.1614

BETA (5) = 10.050 ALPHA (3) = 4.130 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2626	-.1575	-.1615
.200	-.1407		-.1437
.410	-.1397	-.1357	-.1387
.590	-.1615	-.1357	-.1367
.770		-.1397	
.950	-.1377	-.1149	-.1139

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 431

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE08)

BETA (5) = 10.050 ALPHA (4) = 6.200 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2379	-.1189	-.1259
.200	-.0991		-.1021
.410	-.1021	-.0951	-.0951
.590	-.1249	-.0961	-.0951
.770		-.0971	
.950	-.0902	-.0664	-.0654

BETA (5) = 10.050 ALPHA (5) = 8.280 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2078	-.0930	-.0890
.200	-.0564		-.0653
.410	-.0673	-.0514	-.0554
.590	-.0920	-.0554	-.0554
.770		-.0613	
.950	-.0415	-.0148	-.0109

BETA (5) = 10.050 ALPHA (6) = 10.320 Q(PSF) = 42.887 PO/PSF = 2125.5 RUN NO = 159.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1672	-.0672	-.0405
.200	-.0138		-.0208
.410	-.0336	-.0109	-.0148
.590	-.0564	-.0178	-.0148
.770		-.0208	
.950	.0039	.0405	.0474

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = .000
 BOFLAP = .000 SPDBRK = 25.000
 PHI-N = 20.000 THETAN = 2.900
 PHI-M = 20.000 THETAM = 3.100

BETA (1) = -10.050 ALPHA (1) = .000 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150 00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2530 -.2530 -.2580
 .200 -.2580 -.2580 -.2639
 .410 -.2401 -.2322 -.2649
 .590 -.2401 -.2381 -.2401
 .770 -.2302 -.2302 -.2302
 .950 -.2361 -.2292 -.2322

BETA (1) = -10.050 ALPHA (2) = 2.060 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2153 -.2173 -.2153
 .200 -.2202 -.2173 -.2252
 .410 -.2024 -.1974 -.2292
 .590 -.2054 -.2054 -.2034
 .770 -.1974 -.1974 -.1974
 .950 -.2063 -.1974 -.1934

BETA (1) = -10.060 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1761 -.1781 -.1722
 .200 -.1811 -.1781 -.1890
 .410 -.1633 -.1593 -.1939
 .590 -.1643 -.1662 -.1623
 .770 -.1603 -.1603 -.1603
 .950 -.1672 -.1513 -.1544

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 433

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (1) = -10.060 ALPHA (4) = 6.200 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1337	-.1347	-.1308
.200	-.1407		-.1476
.410	-.1248	-.1238	-.1545
.590	-.1218	-.1208	-.1208
.770		-.1248	
.950	-.1298	-.1199	-.1169

BETA (1) = -10.060 ALPHA (5) = 8.290 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0899	-.0909	-.0820
.200	-.0968		-.1087
.410	-.0780	-.0790	-.1126
.590	-.0830	-.0859	-.0909
.770		-.0869	
.950	-.0810	-.0672	-.0603

BETA (1) = -10.060 ALPHA (6) = 10.400 Q(PSF) = 42.902 PO/PSF = 2125.6 RUN NO = 150.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0424	-.0454	-.0335
.200	-.0503		-.0790
.410	-.0395	-.0385	-.0661
.590	-.0375	-.0375	-.0395
.770		-.0474	
.950	-.0296	-.0158	-.0069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 434

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (2) = -5.030 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	- .2085	-.2085	-.2174
.200	-.2263		-.2016
.410	-.1976	-.1937	-.2095
.590	-.1937	-.1947	-.1927
.770		-.1917	
.950	- .2134	-.2016	-.1966

BETA (2) = -5.030 ALPHA (2) = 2.070 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1710	-.1710	-.1759
.200	-.1808		-.1611
.410	- .1551	-.1522	-.1739
.590	- .1571	-.1551	-.1551
.770		-.1581	
.950	- .1789	-.1611	-.1630

BETA (2) = -5.030 ALPHA (3) = 4.140 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1267	-.1286	-.1336
.200	-.1346		-.1197
.410	-.1168	-.1118	-.1376
.590	-.1217	-.1197	-.1188
.770		-.1207	
.950	-.1395	-.1217	-.1237

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 435

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (2) = -5.030 ALPHA (4) = 6.210 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0842	-.0842	-.0882
.200	-.0902		-.0773
.410	-.0753	-.0714	-.0942
.590	-.0793	-.0773	-.0783
.770		-.0783	
.950	-.0991	-.0813	-.0833

BETA (2) = -5.040 ALPHA (5) = 8.290 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0366	-.0386	-.0436
.200	-.0455		-.0376
.410	-.0267	-.0257	-.0505
.590	-.0356	-.0336	-.0327
.770		-.0376	
.950	-.0535	-.0336	-.0366

BETA (2) = -5.040 ALPHA (6) = 10.420 Q(PSF) = 42.935 PO/PSF = 2125.5 RUN NO = 151.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0137	.0088	.0068
.200	.0029		.0029
.410	.0167	.0197	.0019
.590	.0108	.0137	.0157
.770		.0049	
.950	-.0020	.0108	.0118

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 436

0A163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2199	-.2239	-.2406
.200	-.2169		-.1913
.410	-.1785	-.1795	-.1785
.590	-.1785	-.1785	-.1775
.770		-.1765	
.950	-.1933	-.1824	-.1795

BETA (3) = .000 ALPHA (2) = 2.070 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1759	-.1799	-.1947
.200	-.1809		-.1502
.410	-.1413	-.1413	-.1473
.590	-.1394	-.1384	-.1394
.770		-.1403	
.950	-.1591	-.1403	-.1413

BETA (3) = .000 ALPHA (3) = 4.130 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1347	-.1377	-.1486
.200	-.1387		-.1119
.410	-.1040	-.1050	-.1100
.590	-.1040	-.1000	-.1020
.770		-.1030	
.950	-.1298	-.1060	-.1080

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 437

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (3) = .000 ALPHA (4) = 6.220 Q(PSF) = 42.942 , PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0892	-.0902	-.1021
.200	-.0912		-.0743
.410	-.0604	-.0614	-.0664
.590	-.0614	-.0585	-.0565
.770		-.0624	
.950	-.0902	-.0674	-.0644

BETA (3) = .000 ALPHA (5) = 8.270 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0425	-.0464	-.0524
.200	-.0435		-.0326
.410	-.0217	-.0168	-.0188
.590	-.0237	-.0158	-.0158
.770		-.0197	
.950	-.0474	-.0267	-.0227

BETA (3) = .000 ALPHA (6) = 10.340 Q(PSF) = 42.942 PO/PSF = 2125.4 RUN NO = 152.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0098	.0029	.0000
.200	.0069		.0069
.410	.0237	.0247	.0237
.590	.0177	.0266	.0266
.770		.0197	
.950	.0059	.0237	.0237

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 438

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (4) = 5.020 ALPHA (1) = .030 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4721	-.4543	-.2459
.200	-.2173		-.1797
.410	-.1935	-.1926	-.1896
.590	-.1886	-.1847	-.1837
.770		-.1926	
.950	-.1896	-.1708	-.1669

BETA (4) = 5.020 ALPHA (2) = 2.070 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4438	-.4151	-.1986
.200	-.1739		-.1393
.410	-.1571	-.1532	-.1512
.590	-.1512	-.1482	-.1453
.770		-.1581	
.950	-.1542	-.1295	-.1265

BETA (4) = 5.020 ALPHA (3) = 4.100 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4115	-.3680	-.1513
.200	5.9225		-.0969
.410	-.1315	-.0821	-.1088
.590	-.1157	-.1098	-.1068
.770		-.1197	
.950	-.1147	-.0831	-.0841

C-6

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 439

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (4) = 5.020 ALPHA (4) = 6.210 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3837	-3053	-.1041
.200	-.0862		-.0545
.410	-.0743	-.0724	-.0674
.590	-.0783	-.0694	-.0614
.770		-.0803	
.950	-.0763	-.0347	-.0377

BETA (4) = 5.020 , PHA (5) = 8.270 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3247	-.2574	-.0574
.200	-.0406		-.0079
.410	-.0267	-.0287	-.0237
.590	-.0396	-.0218	-.0168
.770		-.0356	
.950	-.0287	.0158	.0108

BETA (4) = 5.020 ALPHA (6) = 10.350 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 153.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2738	-.1858	-.0128
.200	.0078		.0375
.410	.0167	.0167	.0217
.590	-.0079	.0217	.0285
.770		.0059	
.950	.0256	.0721	.0681

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6909	-.2607	-.2874
.200	-.2101		-.2141
.410	-.2220	-.2240	-.2250
.590	-.2260	-.2220	-.2210
.770		-.2280	
.950	-.2289	-.2131	-.2012

BETA (5) = 10.080 ALPHA (2) = 2.070 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6304	-.2137	-.2424
.200	-.1672		-.1722
.410	-.1831	-.1850	-.1841
.590	-.1880	-.1821	-.1811
.770		-.1890	
.950	-.1949	-.1771	-.1672

BETA (5) = 10.080 ALPHA (3) = 4.130 Q(PSF) = 42.898 PO/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5649	-.1367	-.2032
.200	-.1258		-.1328
.410	-.1397	-.1377	-.1407
.590	-.1486	-.1367	-.1358
.770		-.1467	
.950	-.1556	-.1318	-.1268

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 441

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE09)

BETA (5) = 10.080 ALPHA (4) = 6.200 Q(PSF) = 42.898 P0/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.5050 -.0684 -.1547

.200 -.0833 -.0913

.410 -.0972 -.0922 -.0962

.590 -.1141 -.0932 -.0922

.770 -.1061

.950 -.1131 -.0843 -.0833

BETA (5) = 10.080 ALPHA (5) = 8.280 Q(PSF) = 42.898 P0/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4438 .0039 -.1057

.200 -.0375 -.0454

.410 -.0504 -.0425 -.0524

.590 -.0761 -.0484 -.0484

.770 -.0593

.950 -.0613 -.0316 -.0356

BETA (5) = 10.080 ALPHA (6) = 10.440 Q(PSF) = 42.898 P0/PSF = 2125.5 RUN NO = 154.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3746 .0879 -.0543

.200 -.0068 .0019

.410 -.0059 .0078 -.0039

.590 -.0415 .0019 .0029

.770 -.0099

.950 -.0069 .0246 .0325

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 442

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE10) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

✓ SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 30.800 THETAN = 5.000
PHI-M = 32.200 THETAM = 5.000

BETA (1) = -10.060 ALPHA (1) = 010 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.1936 -.2174 -.2184
.200 -.1896 -.2234
.410 -.2184 -.6234 -.2244
.590 -.2214 -.2075 -.2144
.770 -.2144
.950 -.0903 -.5143 -.6692

BETA (1) = -10.060 ALPHA (2) = 2.080 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.4697 -.6365 -.4409
.200 -.1499 -.1837
.410 -.1450 -.1489 -.1847
.590 -.1747 -.1757 -.1777
.770 -.1688
.950 -.1867 -.1797 -.1807

BETA (1) = -10.070 ALPHA (3) = 4.130 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.4257 -.5968 -.3869
.200 -.1074 -.1462
.410 -.1074 -.1094 -.1442
.590 -.1273 -.1283 -.1213
.770 -.1293
.950 -.1561 -.1472 -.1462

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 443

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (1) = -10.070 ALPHA (4) = 6.210 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3722	-.5340	-.3097
.200	-.0615		-.1062
.410	-.0496	-.0566	-.0903
.590	-.0814	-.0784	-.0695
.770		-.0883	
.950	-.1161	-.1121	-.1131

BETA (1) = -10.070 ALPHA (5) = 8.290 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3052	-.4638	-.2309
.200	-.0148		-.0594
.410	-.0010	-.0049	-.0376
.590	-.0287	-.0257	-.0248
.770		-.0386	
.950	-.0783	-.0733	-.0733

BETA (1) = -10.070 ALPHA (6) = 10.350 Q(PSF) = 42.792 PO/PSF = 2131.0 RUN NO = 50.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2460	-.4017	-.1617
.200	.0336		-.0129
.410	.0436	.0416	.0029
.590	.0227	.0277	.0307
.770		.0108	
.950	-.0387	-.0307	-.0317

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 444

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (2) = -5.040 ALPHA (1) = .000 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5583	-.7242	-.4073
.200	-.1619		-.1907
.410	-.1788	-.1798	-.1828
.590	-.1997	-.2007	-.2016
.770		-.2016	
.950	-.2007	-.1917	-.1867

BETA (2) = -5.040 ALPHA (2) = 2.070 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4999	-.6715	-.3352
.200	-.1160		-.1517
.410	-.1269	-.1259	-.1329
.590	-.1507	-.1497	-.1527
.770		-.1567	
.950	-.1656	-.1507	-.1517

BETA (2) = -5.050 ALPHA (3) = 4.110 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4342	-.6136	-.2795
.200	-.0664		-.1070
.410	-.0763	-.0763	-.0852
.590	-.1031	-.1011	-.1070
.770		-.1090	
.950	-.1259	-.1080	-.1170

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 445

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (2) = -5.050 ALPHA (4) = 6.180 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3626	-.5429	-.2269
.200	-.0109		-.0584
.410	-.0247	-.0218	-.0366
.590	-.0535	-.0505	-.0525
.770		-.0604	
.950	-.0832	-.0654	-.0683

BETA (2) = -5.050 ALPHA (5) = 8.250 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2834	-.4733	-.1730
.200	.0447		-.0079
.410	.0307	.0327	.0138
.590	-.0010	.0059	.0029
.770		-.0079	
.950	-.0417	-.0169	-.0228

BETA (2) = -5.050 ALPHA (6) = 10.350 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 49.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2053	-.3769	-.1200
.200	.1001		.0455
.410	.0912	.0822	.0624
.590	.0555	.0634	.0604
.770		.0475	
.950	.0019	.0267	.0297

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 446

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (3) = -.020 ALPHA (1) = .000 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5795	-.7311	-.3794
.200	-.1010		-.1931
.410	-.1654	-.1823	-.1902
.590	-.1803	-.1892	-.1912
.770		-.1991	
.950	-.1803	-.1684	-.1773

BETA (3) = -.020 ALPHA (2) = 2.090 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5068	-.6814	-.3322
.200	-.0496		-.1478
.410	-.1190	-.1368	-.1478
.590	-.1299	-.1408	-.1448
.770		-.1547	
.950	-.1368	-.1230	-.1339

BETA (3) = -.020 ALPHA (3) = 4.100 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4286	-.6141	-.2965
.200	-.0039		-.0992
.410	-.0754	-.0913	-.1032
.590	-.0823	-.0932	-.0982
.770		-.1061	
.950	-.0913	-.0784	-.0903

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 447

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (3) = -.020 ALPHA (4) = 6.200 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3470	-.5264	-.2468
.200	.0376		-.0426
.410	-.0188	-.0317	-.0495
.590	-.0317	-.0377	-.0446
.770		-.0535	
.950	-.0357	-.0238	-.0436

BETA (3) = -.020 ALPHA (5) = 8.240 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2715	-.4396	-.1929
.200	.0775		.0089
.410	.0318	.0238	.0039
.590	.0208	.0158	.0079
.770		-.0020	
.950	.0138	.0288	.0049

BETA (3) = -.020 ALPHA (6) = 10.360 Q(PSF) = 42.810 PO/PSF = 2130.9 RUN NO = 48.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1985	-.3384	-.1350
.200	.1280		.0674
.410	.0873	.0773	.0625
.590	.0714	.0714	.0625
.770		.0565	
.950	.0714	.0892	.0595

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 448

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (4) = 5.000 ALPHA (1) = -.010 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR 1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5901	-.6992	-.4076
.200	-.0972		-.1874
.410	-.1368	-.1716	-.1805
.590	-.1616	-.1587	-.1656
.770		-.2241	
.950	-.1765	-.1359	-.1368

BETA (4) = 5.000 ALPHA (2) = 2.030 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5321	-.6203	-.3736
.200	-.0574		-.1407
.410	-.0911	-.1219	-.1357
.590	-.1169	-.1100	-.1169
.770		-.1853	
.950	-.1387	-.0892	-.0921

BETA (4) = 5.000 ALPHA (3) = 4.110 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4737	-.5392	-.3217
.200	-.0109		-.0963
.410	-.0467	-.0745	-.0864
.590	-.0695	-.0625	-.0675
.770		-.1410	
.950	-.0973	-.0387	-.0427

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 449

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (4) = 5.000 ALPHA (4) = 6.190 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4099	-.4605	-.2600
.200	.0337		-.0446
.410	.0039	-.0228	-.0347
.590	-.0198	-.0089	-.0149
.770		-.0972	
.950	-.0446	.0128	.0148

BETA (4) = 5.000 ALPHA (5) = 8.250 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3502	-.3760	-.2163
.200	.0823		.0029
.410	.0515	.0337	.0158
.590	.0297	.0456	.0376
.770		-.0496	
.950	.0059	.0724	.0704

BETA (4) = 5.000 ALPHA (6) = 10.310 Q(PSF) = 42.797 PO/PSF = 2130.8 RUN NO = 47.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2854	-.2953	-.1382
.200	.1262		.0536
.410	.1004	.0884	.0705
.590	.0805	.1014	.0964
.770		-.0020	
.950	.0566	.1332	.1272

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 450

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (5) = 10.050 ALPHA (1) = .000 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7811	-.5604	-.4710
.200	-.0656		-.1967
.410	-.1292	-.1232	-.1252
.590	-.1699	-.1580	-.1431
.770		-.2275	
.950	-.2315	-.1828	-.1530

BETA (5) = 10.050 ALPHA (2) = 2.040 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7439	-.4877	-.4161
.200	-.0308		-.1579
.410	-.0874	-.0804	-.0774
.590	-.1231	-.1112	-.0983
.770		-.1837	
.950	-.1966	-.1380	-.1053

BETA (5) = 10.050 ALPHA (3) = 4.120 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6843	-.4251	-.3675
.200	.0079		-.1162
.410	-.0496	-.0337	-.0268
.590	-.0794	-.0675	-.0546
.770		-.1500	
.950	-.1589	-.0933	-.0556

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 451

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE10)

BETA (5) = 10.050 ALPHA (4) = 6.250 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6027	-.3610	-.3222
.200	.0447		-.0696
.410	-.0040	.0129	.0268
.590	-.0338	-.0189	-.0059
.770		-.1044	
.950	-.1124	-.0437	.0039

BETA (5) = 10.050 ALPHA (5) = 8.240 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5192	-.2958	-.2591
.200	.0823		-.0228
.410	.0406	.0565	.0803
.590	.0128	.0297	.0406
.770		-.0605	
.950	-.0665	.0079	.0545

BETA (5) = 10.050 ALPHA (6) = 10.330 Q(PSF) = 42.758 PO/PSF = 2130.9 RUN NO = 46.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4160	-.2214	-.1867
.200	.1191		.0317
.410	.0863	.1062	.1330
.590	.0595	.0853	.0943
.770		-.0099	
.950	-.0119	.0625	.1131

0A163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE11) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
 BDFLAP = .000 SPDBRK = 25.000
 PHI-N = 30.800 THETAN = 5.000
 PHI-M = 40.000 THETAM = 6.200

BETA (1) = -10.080 ALPHA (1) = .020 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.5086 -.6560 -.4631
 .200 -.1910 -.2147
 .410 -.1860 -.1890 -.2157
 .590 -.2137 -.2147 -.2177
 .770 -.2058
 .950 -.2167 -.2127 -.2137

BETA (1) = -10.080 ALPHA (2) = 2.080 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4868 -.6251 -.4401
 .200 -.1493 -.1800
 .410 -.1424 -.1444 -.1800
 .590 -.1721 -.1731 -.1770
 .770 -.1691
 .950 -.1859 -.1770 -.1750

BETA (1) = -10.080 ALPHA (3) = 4.110 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4228 -.5951 -.3921
 .200 -.1059 -.1445
 .410 -.1010 -.1039 -.1426
 .590 -.1267 -.1257 -.1237
 .770 -.1287
 .950 -.1515 -.1475 -.1455

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 453

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (1) = -10.080 ALPHA (4) = 6.200 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3705	-.5359	-.3160
.200	-.0594		-.1030
.410	-.0495	-.0525	-.0852
.590	-.0782	-.0733	-.0703
.770		-.0832	
.950	-.1139	-.1080	-.1109

BETA (1) = -10.080 ALPHA (5) = 8.270 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3094	-.4626	-.2323
.200	-.0138		-.0583
.410	-.0020	-.0049	-.0405
.590	-.0267	-.0227	-.0257
.770		-.0415	
.950	-.0761	-.0731	-.0721

BETA (1) = -10.080 ALPHA (6) = 10.330 Q(PSF) = 42.928 PO/PSF = 2127.9 RUN NO = 51.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2472	-.4005	-.1681
.200	.0365		-.0118
.410	.0434	.0385	.0029
.590	.0237	.0276	.0276
.770		.0078	
.950	-.0356	-.0316	-.0296

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (2) = -5.050 ALPHA (1) = .000 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5537	-.7196	-.4106
.200	-.1589		-.1905
.410	-.1747	-.1777	-.1777
.590	-.1885	-.1865	-.1855
.770		-.1994	
.950	-.2043	-.1964	-.1944

BETA (2) = -5.060 ALPHA (2) = 2.060 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4979	-.6717	-.3378
.200	-.1126		-.1521
.410	-.1245	-.1225	-.1284
.590	-.1432	-.1412	-.1452
.770		-.1531	
.950	-.1689	-.1551	-.1551

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4325	-.6097	-.2752
.200	-.0613		-.1069
.410	-.0722	-.0703	-.0802
.590	-.0990	-.0960	-.1000
.770		-.1069	
.950	-.1277	-.1118	-.1138

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 455

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (2) = -5.060 ALPHA (4) = 6.190 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3640	-.5425	-.2311
.200	-.0109		-.0575
.410	-.0238	-.0238	-.0347
.590	-.0506	-.0476	-.0456
.770		.0605	
.950	-.0863	-.0704	-.0744

BETA (2) = -5.060 ALPHA (5) = 8.260 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2827	-.4732	-.1776
.200	.0446		-.0089
.410	.0287	.0277	.0098
.590	-.0010	.0089	.0079
.770		-.0089	
.950	-.0456	-.0188	-.0307

BETA (2) = -5.060 ALPHA (6) = 10.340 Q(PSF) = 42.938 PO/PSF = 2127.8 RUN NO = 52.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2013	-.3779	-.1194
.200	.1016		.0453
.410	.0878	.0828	.0621
.590	.0572	.0710	.0700
.770		.0493	
.950	-.0010	.0246	.0235

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 456

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.5768	-.7317	-.3802
.200	-.0963		-.1896
.410	-.1668	-.1787	-.1847
.590	-.1747	-.1886	-.1896
.770		-.1976	
.950	-.1777	-.1678	-.1777

BETA (3) = -.010 ALPHA (2) = 2.060 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.4982	-.6795	-.3437
.200	-.0485		-.1486
.410	-.1188	-.1357	-.1456
.590	-.1317	-.1416	-.1446
.770		-.1545	
.950	-.1387	-.1248	-.1337

BETA (3) = -.020 ALPHA (3) = 4.140 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4188	-.6099	-.2990
.200	-.0010		-.0970
.410	-.0703	-.0851	-.0960
.590	-.0802	-.0911	-.0950
.770		-.1030	
.950	-.0930	-.0792	-.0891

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 457

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (3) = -.020 ALPHA (4) = 6.220 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3452	-.5277	-.2490
.200	.0396		-.0426
.410	-.0178	-.0317	-.0426
.590	-.0287	-.0347	-.0436
.770		-.0516	
.950	-.0387	-.0297	-.0426

BETA (3) = -.010 ALPHA (5) = 8.260 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2669	-.4301	-.2007
.200	.0790		.0108
.410	.0355	.0256	.0098
.590	.0217	.0187	.0098
.770		.0009	
.950	.0118	.0316	.0068

BETA (3) = -.010 ALPHA (6) = 10.340 Q(PSF) = 42.878 PO/PSF = 2127.8 RUN NO = 53.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1939	-.3384	-.1385
.200	.1285		.0692
.410	.0880	.0820	.0642
.590	.0761	.0731	.0662
.770		.0563	
.950	.0652	.0761	.0563

REPRODUCIBILITY OF THE
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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 458

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (4) = 5.020 ALPHA (1) = .000 Q(P5F) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5882	-.7009	-.4142
.200	-.0959		-.1848
.410	-.1374	-.1690	-.1799
.590	-.1631	-.1591	-.1671
.770		-.2224	
.950	-.1769	-.1344	-.1364

BETA (4) = 5.020 ALPHA (2) = 2.090 Q(P5F) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5314	-.6215	-.3850
.200	-.0554		-.1375
.410	-.0910	-.1227	-.1326
.590	-.1148	-.1118	-.1178
.770		-.1831	
.950	-.1346	-.0831	-.0881

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(P5F) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4785	-.5450	-.3355
.200	-.0109		-.0963
.410	-.0466	-.0734	-.0883
.590	-.0715	-.0625	-.0675
.770		-.1419	
.950	-.0933	-.0377	-.0407

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 459

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (4) = 5.020 ALPHA (4) = 6.200 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4131	-.4656	-.2784
.200	.0336		-.0446
.410	.0009	-.0218	-.0376
.590	-.0238	-.0099	-.0168
.770		-.0990	
.950	-.0455	.0138	.0128

BETA (4) = 5.020 ALPHA (5) = 8.250 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3512	-.3789	-.2355
.200	.0811		.0078
.410	.0494	.0326	.0148
.590	.0316	.0425	.0405
.770		-.0495	
.950	.0029	.0712	.0702

BETA (4) = 5.020 ALPHA (6) = 10.330 Q(PSF) = 42.898 PO/PSF = 2127.7 RUN NO = 54.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2841	-.2930	-.1603
.200	.1286		.0554
.410	.1009	.0890	.0692
.590	.0841	.1029	.0999
.770		-.0010	
.950	.0524	.1256	.1296

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 460

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (5) = 10.120 ALPHA (1) = .000 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7822	-.5538	-.4786
.200	-.0682		-.1948
.410	-.1266	-.1236	-.1216
.590	-.1691	-.1562	-.1414
.770		-.2255	
.950	-.2304	-.1829	-.1533

BETA (5) = 10.120 ALPHA (2) = 2.050 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.7395	-.4887	-.4312
.200	-.0317		-.1556
.410	-.0882	-.0783	-.0773
.590	-.1249	-.1110	-.0951
.770		-.1863	
.950	-.1963	-.1398	-.1060

BETA (5) = 10.120 ALPHA (3) = 4.110 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6781	-.4286	-.3811
.200	.0049		-.1158
.410	-.0485	-.0326	-.0287
.590	-.0782	-.0673	-.0524
.770		-.1485	
.950	-.1584	-.0920	-.0544

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 461

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE11)

BETA (5) = 10.120 ALPHA (4) = 6.180 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.6015	-.3667	-.3369
.200	.0425	-.0723	
.410	-.0029	.0138	.0227
.590	-.0366	-.0188	-.0059
.770		-.1060	
.950	-.1139	-.0446	.0009

BETA (5) = 10.130 ALPHA (5) = 8.260 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5114	-.2957	-.2750
.200	.0800		-.0217
.410	.0375	.0593	.0810
.590	.0128	.0316	.0405
.770		-.0593	
.950	-.0692	.0098	.0573

BETA (5) = 10.130 ALPHA (6) = 10.330 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 55.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4155	-.2281	-.2043
.200	.1179		.0277
.410	.0832	.1041	.1338
.590	.0584	.0842	.0912
.770		-.0099	
.950	-.0188	.0614	.1110

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 462

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE12) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 50.000 THETAN = 9.800
PHI-M = 48.300 THETAM = 6.200

BETA (1) = -10.090 , ALPHA (1) = .010 Q(PSF) = 42.870 P0/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1230 -.8789 -.9424
.200 -.0793 -.2123
.410 -.1061 -.7365 -.1190
.590 -.2847 -.0724 -.0645
.770 -.2946
.950 -.0119 -.5129 -.2420

BETA (1) = -10.090 ALPHA (2) = 2.070 Q(PSF) = 42.870 P0/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4505 -.7723 -.8357
.200 -.0663 -.1653
.410 -.0208 -.0257 -.0564
.590 -.0356 -.0119 -.0099
.770 -.1505
.950 -.2505 -.2574 -.1980

BETA (1) = -10.100 , ALPHA (3) = 4.130 Q(PSF) = 42.870 P0/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3833 -.6627 -.7182
.200 -.0069 -.1129
.410 .0455 .0395 .0039
.590 .0.78 .0346 .0445
.770 -.0921
.950 -.2130 -.2179 -.1654

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 463

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (1) = -10.090 ALPHA (4) = 6.230 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3130	-.5250	-.5993
.200	.0475		-.0545
.410	.1049	.0861	.0643
.590	.0752	.0861	1020
.770		-.0426	
.950	-.1743	-.1753	-.1109

BETA (1) = -10.100 ALPHA (5) = 8.300 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1000	.1485	-.4775
.200	.1604		.1257
.410	.1297	-.3129	.1604
.590	-.1347	.0078	-.0495
.770		-.1436	
.950	.2171	-.2318	-.3982

BETA (1) = -10.100 ALPHA (6) = 10.390 Q(PSF) = 42.870 PO/PSF = 2127.9 RUN NO = 56.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1506	-.2874	-.3677
.200	.1535		.0604
.410	.2221	.2032	.1823
.590	.1784	.2022	.2261
.770		.0544	
.950	-.0981	-.1070	-.0069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 464

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (2) = -5.040 ALPHA (1) = .010 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5273	-.8158	-.8544
.200	-.0277		-.1665
.410	-.0406	-.0525	-.0743
.590	-.1041	-.1001	-.1150
.770		-.1566	
.950	-.2418	-.2319	-.2577

BETA (2) = -5.040 ALPHA (2) = 2.060 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4523	-.7037	-.7473
.200	.0266		-.1168
.410	.0266	.0158	-.0089
.590	-.0574	-.0534	-.0633
.770		-.1059	
.950	-.2029	-.1989	-.2148

BETA (2) = -5.040 ALPHA (3) = 4.120 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3737	-.5859	-.6433
.200	.0763		-.0634
.410	.0882	.0822	.0475
.590	-.0010	.0000	-.0049
.770		-.0505	
.950	-.1596	-.1556	-.1725

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 465

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (2) = -5.040 ALPHA (4) = 6.180 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2940	-.4692	-.5376
.200	.1118		-.0039
.410	.1445	.1445	.1088
.590	.0514	.0554	.0494
.770		.0088	
.950	-.1168	-.1178	-.1307

BETA (2) = -5.040 ALPHA (5) = 8.270 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2119	-.3615	-.4348
.200	.1594		.0792
.410	.1852	.1911	.1643
.590	.1059	.1029	.1019
.770		.0663	
.950	-.0693	-.0713	-.0852

BETA (2) = -5.040 ALPHA (6) = 10.320 Q(PSF) = 42.887 PO/PSF = 2127.8 RUN NO = 57.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1336	-.2445	-.3306
.200	.2020		.1286
.410	.2298	.2338	.2159
.590	.1563	.1623	.1593
.770		.1207	
.950	-.0267	-.0277	-.0326

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 466

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (3) = -.010 ALPHA (1) = .000 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5345	-.6870	-.7365
.200	-.0505		-.1316
.410	-.0821	-.1118	-.1217
.590	-.0960	-.1138	-.1277
.770		-.1485	
.950	-.1831	-.1643	-.1623

BETA (3) = -.010 ALPHA (2) = 2.070 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4560	-.5787	-.6242
.200	-.0059		-.0811
.410	-.0306	-.0593	-.0672
.590	-.0445	-.0573	-.0752
.770		-.1029	
.950	-.1355	-.1147	-.1068

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3707	-.4857	-.5095
.200	.0455		-.0228
.410	.0217	.0019	-.0099
.590	.0098	-.0010	-.0198
.770		-.0545	
.950	-.0872	-.0624	-.0466

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 467

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (3) = -.010 ALPHA (4) = 6.190 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2914	-.4080	-.3902
.200	.1017		.0375
.410	.0720	.0582	.0424
.590	.0622	.0582	.0365
.770		.0049	
.950	-.0425	-.0089	.0068

BETA (3) = -.010 ALPHA (5) = 8.270 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2228	-.3327	-.2673
.200	.1534		.1019
.410	.1237	.1138	.1009
.590	.1138	.1158	.0930
.770		.0415	
.950	.0039	.0425	.0643

BETA (3) = -.010 ALPHA (6) = 10.310 Q(PSF) = 42.922 PO/PSF = 2127.8 RUN NO = 58.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1553	-.2572	-.1375
.200	.1949		.1612
.410	.1741	.1751	.1552
.590	.1612	.1760	.1454
.770		.0919	
.950	.0514	.0939	.1157

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 468

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (4) = 5.030 ALPHA (1) = .000 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5256	-.6595	-.3640
.200	-.0287		-.0892
.410	-.0069	-.0516	-.0793
.590	.0019	.0039	-.0486
.770		-.2023	
.950	-.2172	-.1795	-.1002

BETA (4) = 5.030 ALPHA (2) = 2.040 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4593	-.5854	-.2292
.200	.0148		-.0357
.410	.0376	.0000	-.0307
.590	.0515	.0545	.0079
.770		-.1538	
.950	-.1776	-.1379	-.0526

BETA (4) = 5.030 ALPHA (3) = 4.090 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3907	-.4988	-.0763
.200	.0604		.0128
.410	.0822	.0594	.0257
.590	.1011	.1070	.0644
.770		-.1031	
.950	-.1358	-.0972	-.0059

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 469

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (4) = 5.030 ALPHA (4) = 6.230 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3151	-.4004	.0663
.200	.1089		.0594
.410	.1298	.1139	.0802
.590	.1535	.1664	.1228
.770		-.0485	
.950	-.0931	-.0535	.0435

BETA (4) = 5.020 ALPHA (5) = 8.330 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2385	-.3011	.1799
.200	.1530		.0963
.410	.1799	.1709	.1361
.590	.2048	.2168	.1789
.770		.0119	
.950	-.0497	-.0030	.0904

BETA (4) = 5.020 ALPHA (6) = 10.320 Q(PSF) = 42.835 PO/PSF = 2127.8 RUN NO = 59.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1671	-.2027	.2584
.200	.1968		.1305
.410	.2226	.2187	.1889
.590	.2514	.2643	.2296
.770		.0642	
.950	-.0079	.0405	.1374

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 470

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.5258	-.4833	.0296
.200	.0148		-.1050
.410	.0900	.0653	.0168
.590	.0267	.0336	.0049
.770		-.2456	
.950	-.2495	-.2169	-.1238

BETA (5) = 10.060 ALPHA (2) = 2.060 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4471	-.3817	.0713
.200	.0574		-.0654
.410	.1318	.1080	.0604
.590	.0842	.0882	.0554
.770		-.1834	
.950	-.2121	-.1814	-.0862

BETA (5) = 10.060 ALPHA (3) = 4.110 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3645	-.2833	.0990
.200	.0960		-.0267
.410	.1723	.1554	.1079
.590	.1356	.1386	.1079
.770		-.1268	
.950	-.1713	-.1416	-.0455

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 471

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE12)

BETA (5) = 10.060 ALPHA (4) = 6.180 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2849	-.1870	.1157
.200	.1404		.0207
.410	.2088	.1939	.1503
.590	.1840	.1899	.1592
.770		-.0682	
.950	-.1296	-.1039	-.0039

BETA (5) = 10.060 ALPHA (5) = 8.260 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1889	-.0850	.1137
.200	.1849		.0692
.410	.2494	.2365	.1968
.590	.2316	.2375	.2077
.770		-.0158	
.950	-.0929	-.0613	.0385

BETA (5) = 10.060 ALPHA (6) = 10.330 Q(PSF) = 42.890 PO/PSF = 2127.9 RUN NO = 60.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0932	.0198	.1219
.200	.2282		.0991
.410	.2889	.2839	.2401
.590	.2789	.2879	.2590
.770		.0416	
.950	-.0545	-.0267	.0743

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

MACH = .170 ELEVON = .000
 BDFLAP = .000 SPDBRK = 25.000
 PHI-N = 66.000 THETAN = 20.000
 PHI-M = 70.000 THETAM = 11.200

BETA (1) = -10.100 ALPHA (1) = .010 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 - .4976 -.4996 -.6761
 .200 -.0684 -.2488
 .410 -.1308 -.1626 -.1457
 .590 -.0773 -.0961 -.1070
 .770 -.1427
 .950 -.2092 -.2072 -.1903

BETA (1) = -10.100 ALPHA (2) = 2.090 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4410 -.4311 -.6006
 .200 .0128 -.1804
 .410 -.0793 -.1130 -.0872
 .590 -.0386 -.0456 -.0614
 .770 -.1050
 .950 -.1695 -.1665 -.1447

BETA (1) = -10.100 ALPHA (3) = 4.120 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3875 -.3676 -.5272
 .200 .0762 -.1090
 .410 -.0248 -.0634 -.0277
 .590 -.0029 .0019 -.0129
 .770 -.0793
 .950 -.1318 -.1248 -.0931

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 473

OA163 ORB , NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (1) = -10.100 ALPHA (4) = 6.180 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3278	-.2981	-.4486
.200	.1158		-.0336
.410	.0277	-.0010	.0286
.590	.0316	.0504	.0376
.770		-.0336	
.950	-.0960	-.0812	-.0445

BETA (1) = -10.100 ALPHA (5) = 8.270 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2598	-.2350	-.3688
.200	.1487		.0465
.410	.0743	.0624	.0872
.590	.0713	.1130	.0832
.770		.0178	
.950	-.0624	-.0367	.0039

BETA (1) = -10.100 ALPHA (6) = 10.330 Q(PSF) = 42.892 PO/PSF = 2127.6 RUN NO = 62.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1953	-.1716	-.2881
.200	.1746		.1124
.410	.1134	.1262	.1302
.590	.1075	.1716	.1371
.770		.0680	
.950	-.0296	.0098	.0542

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 474

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4506	-.5239	-.6299
.200	-.0861		-.1961
.410	-.0901	-.0951	-.0861
.590	-.0535	-.0515	-.0584
.770		-.1208	
.950	-.1802	-.1792	-.1545

BETA (2) = -5.060 ALPHA (2) = 2.050 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3935	-.4587	-.5447
.200	-.0178		-.1384
.410	-.0405	-.0524	-.0415
.590	-.0188	-.0109	-.0158
.770		-.0988	
.950	-.1433	-.1364	-.1058

BETA (2) = -5.060 ALPHA (3) = 4.090 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3455	-.3930	-.4573
.200	.0346		-.0851
.410	.0049	-.0069	.0029
.590	.0197	.0366	.0296
.770		-.0614	
.950	-.1079	-.0911	-.0594

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 475

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (2) = -5.060 ALPHA (4) = 6.180 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3041	-.3279	-.3755
.200	.0643		-.0218
.410	.0455	.0376	.0465
.590	.0564	.0911	.0752
.770		-.0228	
.950	-.0693	-.0505	-.0208

BETA (2) = -5.060 ALPHA (5) = 8.280 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2424	-.2453	-.2671
.200	.0999		.0444
.410	.0939	.0929	.0939
.590	.0979	.1493	.1236
.770		.0227	
.950	-.0277	-.0089	.0286

BETA (2) = -5.060 ALPHA (6) = 10.300 Q(PSF) = 42.912 PO/PSF = 2127.5 RUN NO = 63.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1821	-.1653	-.1584
.200	.1385		.1088
.410	.1405	.1494	.1405
.590	.1316	.2010	.1722
.770		.0643	
.950	.0108	.0336	.0801

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 476

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4742	-.6722	-.1891
.200	-.1079		-.1604
.410	-.0742	-.1039	-.0831
.590	-.0376	-.0495	-.0584
.770		-.1445	
.950	-.1802	-.1851	-.1445

BETA (3) = .000 ALPHA (2) = 2.040 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3999	-.5623	-.0742
.200	-.0594		-.1059
.410	-.0277	-.0534	-.0366
.590	.0069	-.0010	-.0138
.770		-.1059	
.950	-.1465	-.1475	-.1049

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3329	-.4577	.0336
.200	-.0119		-.0446
.410	.0227	.0029	.0138
.590	.0534	.0524	.0336
.770		-.0664	
.950	-.1090	-.1030	-.0574

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 477

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (3) = .000 ALPHA (4) = 6.200 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2650	-.3550	.1443
.200	.0316		.0217
.410	.0741	.0603	.0593
.590	.1008	.1097	.0790
.770		-.0316	
.950	-.0712	-.0653	-.0148

BETA (3) = .000 ALPHA (5) = 8.270 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1938	-.2690	.2445
.200	.0741		.0850
.410	.1236	.1216	.1028
.590	.1473	.1661	.1305
.770		.0068	
.950	-.0326	-.0227	.0316

BETA (3) = .000 ALPHA (6) = 10.320 Q(PSF) = 42.902 PO/PSF = 2119.0 RUN NO = 67.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1308	-.1844	.3257
.200	.1189		.1486
.410	.1764	.1754	.1506
.590	.1963	.2222	.1864
.770		.0426	
.950	.0059	.0168	.0773

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 478

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (4) = 5.050 ALPHA (1) = .010 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4832	-.5959	.1116
.200	-.1462		-.0840
.410	-.0454	-.0751	-.0642
.590	.0108	-.0020	-.0425
.770		-.1650	
.950	-.1828	-.1956	-.1413

BETA (4) = 5.050 ALPHA (2) = 2.040 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4089	-.4772	.1593
.200	-.0990		-.0287
.410	.0059	-.0168	-.0277
.590	.0484	.0455	.0039
.770		-.1366	
.950	-.1505	-.1564	-.0970

BETA (4) = 5.050 ALPHA (3) = 4.140 Q(PSF) = 42.927 PO/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3278	-.3595	.2070
.200	-.0396		-.0039
.410	.0247	.0197	.0000
.590	.0574	.0702	.0395
.770		-.1228	
.950	-.1297	-.1168	-.0535

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 479

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (4) = 5.050 ALPHA (4) = 6.210 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2468	-.2428	.2341
.200	.0108		.0297
.410	.0723	.0693	.0445
.590	.0961	.1169	.0911
.770		-.0773	
.950	-.0892	-.0803	-.0039

BETA (4) = 5.050 ALPHA (5) = 8.320 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1541	-.1176	.2363
.200	.0543		.0632
.410	.1185	.1185	.0938
.590	.1382	.1620	.1432
.770		-.0237	
.950	-.0484	-.0385	.0355

BETA (4) = 5.050 ALPHA (6) = 10.370 Q(PSF) = 42.927 P0/PSF = 2119.0 RUN NO = 68.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0682	-.0059	.2277
.200	.1087		.1028
.410	.1661	.1671	.1444
.590	.1880	.2068	.1939
.770		.0336	
.950	-.0029	.0068	.0820

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 480

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (5) = 10.100 ALPHA (1) = .030 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3134	-.2916	.0246
.200	-.1562		-.1315
.410	-.0840	-.0801	-.0850
.590	-.0227	-.0069	-.0366
.770		-.1928	
.950	-.2155	-.2185	-.1552

BETA (5) = 10.100 ALPHA (2) = 2.080 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1950	-.1782	.0267
.200	-.1010		-.0980
.410	-.0386	-.0356	-.0386
.590	.0197	.0385	.0088
.770		-.1475	
.950	-.1752	-.1821	-.1188

BETA (5) = 10.100 ALPHA (3) = 4.110 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0811	-.0534	.0276
.200	-.0495		-.0623
.410	.0088	.0108	.0009
.590	.0534	.0771	.0504
.770		-.1000	
.950	-.1297	-.1415	-.0811

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 481

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE13)

BETA (5) = 10.100 ALPHA (4) = 6.230 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0069	.1157	.0375
.200	.0672	21	6266
.410	.0930	- 6204	.0930
.590	-.0871	-.0524	-.0406
.770		-.1000	
.950	-.3029	.0296	.0781

BETA (5) = 10.100 ALPHA (5) = 8.280 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1544	.2478	.0514
.200	.0663		.0207
.410	.1207	.1108	.0920
.590	.1366	.1594	.1386
.770		-.0049	
.950	-.0435	-.0564	-.0069

BETA (5) = 10.090 ALPHA (6) = 10.340 Q(PSF) = 42.917 PO/PSF = 2119.1 RUN NO = 69.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2546	.3747	.0900
.200	.1177		.0672
.410	.1692	.1602	.1335
.590	.1910	.1999	.1811
.770		.0504	
.950	.0019	-.0119	.0326

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 482

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 20.000
PHI-M = 88.000 THETAM = 20.000

BETA (1) = -10.090 ALPHA (1) = .010 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.5023 - .5003 -.6793
.200 -.0771 - .2551
.410 -.1315 -.1651 -.1443
.590 -.0761 -.0959 -.1107
.770 -.1483
.950 -.2155 - .2185 - .1948

BETA (1) = -10.090 ALPHA (2) = 2.110 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.4452 -.4333 -.6028
.200 -.0168 -.1844
.410 -.0803 -.1150 -.0902
.590 -.0386 -.0456 -.0644
.770 -.1130
.950 -.1775 -.1765 -.1467

BETA (1) = -10.090 ALPHA (3) = 4.120 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3898 -.3690 -.5277
.200 -.0773 -.1111
.410 -.0258 -.0615 -.0297
.590 -.0069 .0009 -.0129
.770 -.0793
.950 -.1389 -.1329 -.0962

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 483

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (1) = -10.090 ALPHA (4) = 6.190 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3283	-.3035	-.4533
.200	.1160		-.0357
.410	.0277	-.0020	.0297
.590	.0327	.0525	.0346
.770		-.0357	
.950	-.1061	-.0853	-.0486

BETA (1) = -10.090 ALPHA (5) = 8.270 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2608	-.2322	-.3715
.200	.1491		.0444
.410	.0770	.0661	.0849
.590	.0701	.1096	.0869
.770		.0197	
.950	-.0682	-.0395	.0029

BETA (1) = -10.100 ALPHA (6) = 10.340 Q(PSF) = 42.902 PO/PSF = 2119.2 RUN NO = 70.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1946	-.1719	-.2885
.200	.1758		.1155
.410	.1155	.1284	.1304
.590	.1037	.1709	.1363
.770		.0681	
.950	-.0356	.0019	.0493

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 484

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (2) = -5.080 ALPHA (1) = -.010 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4574	-.5357	-.6330
.200	-.0883	-.1984	
.410	-.0932	-.0992	-.0893
.590	-.0555	-.0536	-.0595
.770		-.1270	
.950	-.1895	-.1875	-.1597

BETA (2) = -5.080 ALPHA (2) = 2.070 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3967	-.4670	-.5421
.200	-.0158		-.1424
.410	-.0445	-.0544	-.0445
.590	-.0217	-.0148	-.0168
.770		-.1029	
.950	-.1513	-.1424	-.1088

BETA (2) = -5.080 ALPHA (3) = 4.110 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3447	-.4012	-.4596
.200	.0356		-.0862
.410	.0029	-.0099	.0009
.590	.0187	.0366	.0267
.770		-.0644	
.950	-.1149	-.0951	-.0594

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 485

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (2) = -5.080 ALPHA (4) = 6.200 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3043	-.3311	-.3717
.200	.0673		-.0248
.410	.0435	.0416	.0435
.590	.0554	.0921	.0753
.770		-.0248	
.950	-.0793	-.0614	-.0208

BETA (2) = -5.080 ALPHA (5) = 8.270 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2459	-.2479	-.2617
.200	.0981		.0406
.410	.0911	.0931	.0941
.590	.0981	.1496	.1258
.770		.0217	
.950	-.0327	-.0168	.0267

BETA (2) = -5.080 ALPHA (6) = 10.330 Q(PSF) = 42.865 PO/PSF = 2119.1 RUN NO = 71.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1852	-.1644	-.1605
.200	.1396		.1059
.410	.1396	.1505	.1436
.590	.1337	.2011	.1753
.770		.0633	
.950	.0039	.0296	.0782

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 48E

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE-LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4763	-.6698	-.1816
.200	-.1091		-.1637
.410	-.0764	-.1042	-.0843
.590	-.0377	-.0526	-.0575
.770		-.1458	
.950	-.1826	-.1855	-.1458

BETA (3) = .000 ALPHA (2) = 2.030 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3974	-.5605	-.0741
.200	-.0583		-.1067
.410	-.0257	-.0543	-.0375
.590	.0098	.0000	-.0118
.770		-.1048	
.950	-.1463	-.1463	-.1028

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3289	-.4607	.0435
.200	-.0148		-.0456
.410	.0237	.0039	.0128
.590	.0554	.0534	.0316
.770		-.0693	
.950	-.1070	-.1030	-.0594

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 487

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (3) = .000 ALPHA (4) = 6.180 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2669	-.3579	.1393
.200	.0316		.0177
.410	.0751	.0632	.0583
.590	.0998	.1116	.0761
.770		-.0286	
.950	-.0702	-.0633	-.0158

BETA (3) = .000 ALPHA (5) = 8.240 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1960	-.2682	.2447
.200	.0742		.0870
.410	.1217	.1177	.1029
.590	.1464	.1662	.1306
.770		.0059	
.950	-.0326	-.0237	.0296

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.907 PO/PSF = 2119.1 RUN NO = 72.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1385	-.1811	.3191
.200	.1177		.1484
.410	.1771	.1771	.1503
.590	.1969	.2188	.1860
.770		.0415	
.950	.0059	.0158	.0761

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 488

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (4) = 5.020 ALPHA (1) = .000 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4873	-.5953	.1228
.200	-.1456		-.0842
.410	-.0495	-.0743	-.0663
.590	.0098	-.0049	-.0406
.770		-.1664	
.950	-.1852	-.1931	-.1426

BETA (4) = 5.030 ALPHA (2) = 2.050 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4084	-.4758	.1576
.200	-.1001		-.0317
.410	-.0099	-.0178	-.0406
.590	.0237	.0336	-.0069
.770		-.1437	
.950	-.1596	-.1546	-.0971

BETA (4) = 5.020 ALPHA (3) = 4.110 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3275	-.3562	.2058
.200	-.0396		-.0059
.410	.0227	.0187	-.0020
.590	.0524	.0722	.0405
.770		-.1207	
.950	-.1276	-.1157	-.0504

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 489

0A163 ORB

NOSE GEAR DOOR_INNER SURFACE

(RFFE14)

BETA (4) = 5.020 ALPHA (4) = 6.170 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2454	-.2395	.2328
.200	.0078		.0306
.410	.0702	.0692	.0445
.590	.0940	.1128	.0920
.770		-.0762	
.950	-.0900	-.0782	.0009

BETA (4) = 5.030 ALPHA (5) = 8.260 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1505	-.1208	.2329
.200	.0584		.0623
.410	.1188	.1178	.0950
.590	.1366	.1614	.1455
.770		-.0208	
.950	-.0485	-.0366	.0376

BETA (4) = 5.020 ALPHA (6) = 10.330 Q(PSF) = 42.913 PO/PSF = 2119.0 RUN NO = 73.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0671	-.0049	.2272
.200	.1085		.1006
.410	.1707	.1678	.1401
.590	.1856	.2054	.1905
.770		.0315	
.950	-.0049	.0049	.0829

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 490

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (5) = 10.080 ALPHA (1) = -.010 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3155	-.2908	.0247
.200	-.1533		-.1325
.410	-.0870	-.0811	-.0920
.590	-.0237	-.0069	-.0395
.770		-.1978	
.950	-.2176	-.2196	-.1563

BETA (5) = 10.080 ALPHA (2) = 2.040 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1951	-.1753	.0267
.200	-.1040		-.0981
.410	-.0396	-.0366	-.0436
.590	.0178	.0366	.0069
.770		-.1486	
.950	-.1724	-.1842	-.1189

BETA (5) = 10.080 ALPHA (3) = 4.130 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0812	-.0436	.0306
.200	-.0515		-.0634
.410	.0128	.0108	.0019
.590	.0554	.0772	.0504
.770		-.0971	
.950	-.1278	-.1416	-.0763

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 491

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE14)

BETA (5) = 10.080 ALPHA (4) = 6.180 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0345	.0771	.0375
.200	.0039		-.0188
.410	.0642	.0603	.0454
.590	.0919	.1156	.0929
.770		-.0524	
.950	-.0860	-.1019	-.0435

BETA (5) = 10.080 ALPHA (5) = 8.270 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1601	.2493	.0553
.200	.0652		.0256
.410	.1215	.1087	.0909
.590	.1363	.1541	.1373
.770		-.0029	
.950	-.0425	-.0543	-.0049

BETA (5) = 10.080 ALPHA (6) = 10.320 Q(PSF) = 42.910 PO/PSF = 2119.2 RUN NO = 74.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2590	.3814	.0902
.200	.1179		.0683
.410	.1695	.1616	.1338
.590	.1894	.1993	.1824
.770		.0505	
.950	.0009	-.0099	.0326

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 492

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 35.000
PHI-M = 88.000 THETAM = 35.000

BETA (1) = -10.090 ALPHA (1) = .010 Q(PSF) = 42.948 PO/PSF = -2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3588 -.4926 -.5779
.200 .0257 -.1427
.410 -.1348 -.1021 -.0813
.590 -.0704 -.0704 -.1080
.770 -.1546
.950 -.2250 -.2101 -.1744

BETA (1) = -10.080 ALPHA (2) = 2.110 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3049 -.4115 -.5132
.200 .0670 -.0691
.410 -.0967 -.0404 -.0237
.590 -.0286 -.0197 -.0622
.770 -.1115
.950 -.1875 -.1687 -.1411

BETA (1) = -10.080 ALPHA (3) = 4.100 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2527 -.3488 -.4459
.200 .0861 -.0327
.410 -.0584 .0178 .0306
.590 .0188 .0356 -.0218
.770 -.0723
.950 -.1486 -.1298 -.0961

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 493

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (1) = -10.090 ALPHA (4) = 6.210 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2249	-.2813	-.3814
.200	.1049		.0187
.410	-.0307	.0693	.0673
.590	.0524	.0891	.0316
.770		-.0287	
.950	-.1109	-.0901	-.0555

BETA (1) = -10.090 ALPHA (5) = 8.280 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1797	-.2221	-.3208
.200	.1214		.1006
.410	-.0207	.1135	.1135
.590	.0779	.1401	.0888
.770		.0187	
.950	-.0711	-.0474	-.0089

BETA (1) = -10.080 ALPHA (6) = 10.350 Q(PSF) = 42.948 PO/PSF = 2117.8 RUN NO = 75.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1362	-.1678	-.2597
.200	.1411		.1707
.410	-.0266	.1500	.1559
.590	.1016	.1866	.1451
.770		.0641	
.950	-.0335	-.0069	.0374

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 494 ~

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3612	-.4116	-.5902
.200	.0394		-.1569
.410	-.1747	-.1095	-.0898
.590	-.0987	-.1095	-.1273
.770		-.1549	
.950	-.1796	-.1845	-.1786

BETA (2) = -5.060 ALPHA (2) = 2.060 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3145	-.3560	-.5162
.200	.0523		-.0959
.410	-.1364	-.0494	-.0405
.590	-.0455	-.0544	-.0761
.770		-.1038	
.950	-.1434	-.1453	-.1266

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2651	-.2987	-.4303
.200	.0672		-.0326
.410	-.0880	.0009	.0059
.590	.0039	.0068	-.0178
.770		-.0554	
.950	-.1078	-.1058	-.0811

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 495

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (2) = -5.060 ALPHA (4) = 6.190 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2221	-.2419	-.3331
.200	.0882		.0247
.410	-.0466	.0495	.0515
.590	.0525	.0644	.0396
.770		-.0089	
.950	-.0724	-.0644	-.0317

BETA (2) = -5.060 ALPHA (5) = 8.250 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1706	-.1795	-.2390
.200	.1130		.0773
.410	-.0049	.0862	.0991
.590	.0942	.1229	.0942
.770		.0366	
.950	-.0307	-.0218	.0217

BETA (2) = -5.060 ALPHA (6) = 10.320 Q(PSF) = 42.932 PO/PSF = 2117.7 RUN NO = 76.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1225	-.1146	-.1472
.200	.1333		.1343
.410	.0375	.1303	.1402
.590	.1343	.1778	.1530
.770		.0819	
.950	.0029	.0177	.0681

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 496

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3523	-.5155	-.2068
.200	-.0831		-.1118
.410	-.2197	-.1534	-.0752
.590	-.0821	-.0920	-.0811
.770		-.1355	
.950	-.1484	-.1435	-.1148

BETA (3) = .000 ALPHA (2) = 2.050 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2947	-.4426	-.0883
.200	-.0556		-.0536
.410	-.1786	-.1032	-.0347
.590	-.0288	-.0377	-.0347
.770		-.1072	
.950	-.1161	-.1101	-.0764

BETA (3) = .000 ALPHA (3) = 4.100 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2397	-.3596	.0237
.200	-.0267		-.0029
.410	-.1307	-.0495	.0098
.590	.0227	.0187	.0128
.770		-.0683	
.950	-.0772	-.0733	-.0327

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 497

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1917	-.2782	.1509
.200	.0079		.0556
.410	-.0795	.0000	.0476
.590	.0734	.0824	.0605
.770		-.0308	
.950	-.0397	-.0338	.0099

BETA (3) = .000 ALPHA (5) = 8.250 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1421	-.2013	.2351
.200	.0414		.1154
.410	-.0335	.0522	.0848
.590	.1223	.1421	.1134
.770		.0147	
.950	-.0059	.0039	.0552

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.905 PO/PSF = 2117.7 RUN NO = 77.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1165	-.1155	.3064
.200	.0799		.1500
.410	.0207	.0986	.1322
.590	.1687	.1964	.1727
.770		.0542	
.950	.0246	.0404	.1006

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 488

OA163 ORB NOSE GEAR DOOR INNER SURFACE (RFFE15)

BETA (4) = 5.050 ALPHA (1) = -.010 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000 ✓

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3944	-.4873	.1235
.200	-.1819		-.0830
.410	-.2491	-.1670	-.1057
.590	-.0365	-.0020	-.0217
.770		-.2076	
.950	-.1809	-.1423	-.0909

BETA (4) = 5.050 ALPHA (2) = 2.050 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3276	-.4008	.1851
.200	-.1415		-.0643
.410	-.2019	-.1173	-.0712
.590	.0069	.0544	.0227
.770		-.1623	
.950	-.1425	-.1079	-.0485

BETA (4) = 5.050 ALPHA (3) = 4.120 Q(PSF) = 42.870 PO/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2831	-.3039	.2397
.200	-.0970		-.0376
.410	-.1504	-.0683	-.0307
.590	.0563	.1039	.0682
.770		-.1108	
.950	-.1069	-.0722	-.0119

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 499

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (4) = 5.050 ALPHA (4) = 6.180 Q(PSF) = 42.870 P0/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2760	-.2026	.2634
.200	-.0556		-.0218
.410	-.1033	-.0218	.0128
.590	.1042	.1558	.1231
.770		-.0606	
.950	-.0695	-.0367	.0238

BETA (4) = 5.050 ALPHA (5) = 8.250 Q(PSF) = 42.870 P0/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2102	-.1101	.2561
.200	-.0079		.0207
.410	-.0565	.0188	.0555
.590	.1477	.1984	.1715
.770		-.0099	
.950	-.0337	.0000	.0614

BETA (4) = 5.050 ALPHA (6) = 10.310 Q(PSF) = 42.870 P0/PSF = 2117.6 RUN NO = 78.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1259	-.0030	.2472
.200	.0396		.0783
.410	.0029	.0713	.1021
.590	.1864	.2402	.2193
.770		.0426	
.950	.0039	.0406	.1051

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (5) = 10.120 ALPHA (1) = .000 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2614	-.2059	.0306
.200	-.1069		-.1426
.410	-.3010	-.1376	-.1079
.590	-.0327	.1029	.0732
.770		-.2218	
.950	-.1931	-.1812	-.1376

BETA (5) = 10.120 ALPHA (2) = 2.060 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1625	-.1149	.0277
.200	-.0644		-.0951
.410	-.2616	-.1001	-.0753
.590	.0079	.1387	.1109
.770		-.1695	
.950	-.1496	-.1417	-.1011

BETA (5) = 10.120 ALPHA (3) = 4.130 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0604	-.0257	.0286
.200	-.0168		-.0475
.410	-.2247	-.0653	-.0366
.590	.0464	.1712	.1474
.770		-.1118	
.950	-.1079	-.1009	-.0623

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 501

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE15)

BETA (5) = 10.120 ALPHA (4) = 6.170 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0296	.0603	.0356
.200	.0227		-.0089
.410	-.1901	-.0267	.0009
.590	.0762	.2061	.1832
.770		-.0574	
.950	-.0644	-.0614	-.0247

BETA (5) = 10.120 ALPHA (5) = 8.240 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1406	.1604	.0495
.200	.0663		.0326
.410	-.1535	.0128	.0435
.590	.1168	.2409	.2191
.770		-.0029	
.950	-.0188	-.0228	.0168

BETA (5) = 10.120 ALPHA (6) = 10.370 Q(PSF) = 42.875 PO/PSF = 2117.8 RUN NO = 79.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2562	.2930	.0803
.200	.1071		.0793
.410	-.1071	.0545	.0843
.590	.1636	.2851	.2612
.770		.0575	
.950	.0327	.0247	.0505

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
 BDFLAP = .000 SPOBRK = 25.000
 PHI-N = 66.000 THETAN = 50.000
 PHI-M = 88.000 THETAM = 50.000

BETA (1) = -10.110 ALPHA (1) = .010 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3120 -.5893 -.6300
 .200 .0009 -.1238
 .410 -.0733 -.0158 -.0436
 .590 -.0822 -.0148 -.0416
 .770 -.1040
 .950 -.2149 -.2001 -.1723

BETA (1) = -10.110 ALPHA (2) = 2.060 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2656 -.5055 -.5471
 .200 .0445 -.0793
 .410 -.0476 .0376 .0049
 .590 -.0525 .0425 .0088
 .770 -.0565
 .950 -.1744 -.1705 -.1477

BETA (1) = -10.110 ALPHA (3) = 4.110 Q(PSF) = 42.897 PO/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2117 -.4284 -.4650
 .200 .0801 -.0366
 .410 -.0227 .0771 .0464
 .590 -.0208 .1009 .0662
 .770 -.0099
 .950 -.1425 -.1316 -.1207

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 503

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (1) = -10.110 ALPHA (4) = 6.180 Q(PSF) = 42.897 P0/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1575	-.3467	-.3863
.200	.1069		-.0039
.410	-.0049	.1346	.1020
.590	.0158	.1594	.1208
.770		.0425	
.950	-.1040	-.1010	-.0871

BETA (1) = -10.110 ALPHA (5) = 8.260 Q(PSF) = 42.897 P0/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1108	-.2672	-.3098
.200	.1326		.0455
.410	.0187	.1880	.1484
.590	.0603	.2129	.1761
.770		.0920	
.950	-.0693	-.0643	-.0524

BETA (1) = -10.110 ALPHA (6) = 10.370 Q(PSF) = 42.897 P0/PSF = 2117.1 RUN NO = 80.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0574	-.1920	-.2277
.200	.1544		.0930
.410	.0494	.2328	.2060
.590	.1029	.2636	.2258
.770		.1435	
.950	-.0297	-.0267	-.0178

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 504

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (2) = -5.060 ALPHA (1) = .000 Q(P5F) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3089	-.5427	-.4496
.200	.1158		-.1079
.410	.0286	.0356	-.0218
.590	-.0733	-.0366	-.0782
.770		-.1356	
.950	-.1594	-.1376	-.1139

BETA (2) = -5.060 ALPHA (2) = 2.050 Q(P5F) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2443	-.4490	-.3669
.200	.1512		-.0465
.410	.0810	.0899	.0276
.590	-.0188	.0167	-.0346
.770		-.0870	
.950	-.1256	-.1058	-.0831

BETA (2) = -5.060 ALPHA (3) = 4.130 Q(P5F) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1761	-.3522	-.2800
.200	.1781		.0078
.410	.1187	.1315	.0722
.590	.0276	.0642	.0197
.770		-.0376	
.950	-.0910	-.0732	-.0455

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 505

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (2) = -5.060 ALPHA (4) = 6.180 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1127	-.2669	-.1898
.200	.2156		.0800
.410	.1551	.1957	.1225
.590	.0721	.1106	.0711
.770		.0078	
.950	-.0534	-.0365	-.0178

BETA (2) = -5.070 ALPHA (5) = 8.250 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0533	-.1868	-.0958
.200	.2562		.1274
.410	.1808	.2334	.1590
.590	.1284	.1779	.1294
.770		.0582	
.950	-.0128	.0009	.0138

BETA (2) = -5.070 ALPHA (6) = 10.330 Q(PSF) = 42.948 PO/PSF = 2117.0 RUN NO = 81.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0019	-.1127	-.0049
.200	.2920		.1829
.410	.2037	.2751	.2146
.590	.1759	.2384	.1868
.770		.1087	
.950	.0227	.0385	.0602

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 506

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3547	-.5588	-.1179
.200	.0782		-.0723
.410	-.0475	-.0327	-.0267
.590	-.0426	-.0188	-.0396
.770		-.1555	
.950	-.1298	-.1278	-.1218

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2862	-.4645	-.0059
.200	.1198		-.0089
.410	-.0029	.0197	.0197
.590	.0059	.0376	.0078
.770		-.1169	
.950	-.0951	-.0901	-.0753

BETA (3) = .000 ALPHA (3) = 4.120 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2182	-.3753	.1086
.200	.1698		.0503
.410	.0404	.0740	.0651
.590	.0493	.0928	.0582
.770		-.0760	
.950	-.0592	-.0513	-.0276

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 507

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (3) = .000 ALPHA (4) = 6.190 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1531	-.2943	.2164
.200	.2085		.1106
.410	.0829	.1273	.1046
.590	.0967	.1461	.1106
.770		-.0336	
.950	-.0207	-.0108	.0167

BETA (3) = .000 ALPHA (5) = 8.250 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0979	-.2236	.2972
.200	.2445		.1770
.410	.1256	.1800	.1463
.590	.1434	.1959	.1641
.770		.0078	
.950	.0158	.0256	.0613

BETA (3) = -.010 ALPHA (6) = 10.340 Q(PSF) = 42.935 PO/PSF = 2117.0 RUN NO = 82.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0435	-.1505	.3570
.200	.2795		.2119
.410	.1682	.2298	.1901
.590	.1861	.2427	.2149
.770		.0484	
.950	.0534	.0603	.0989

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 508

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (4) = 5.050 ALPHA (1) = .000 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3674	-.5457	.1455
.200	.1208		.0029
.410	-.0099	.0336	-.0218
.590	.0594	.1099	.0574
.770		-.1396	
.950	-.1773	-.1545	-.1099

BETA (4) = 5.050 ALPHA (2) = 2.090 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3066	-.4337	.1806
.200	.1607		.0357
.410	.0307	.0873	.0237
.590	.0982	.1508	.1012
.770		-.0903	
.950	-.1399	-.1211	-.0704

BETA (4) = 5.050 ALPHA (3) = 4.140 Q(PSF) = 42.917 PO/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2511	-.3430	.2325
.200	.2007		.0533
.410	.0721	.1324	.0701
.590	.1344	.1898	.1462
.770		-.0474	
.950	-.1048	-.0860	-.0336

DATE 20 OCT 76

TABULATED PRESSURE DATA - .0A163 (NAAL-751)

PAGE 509

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (4) = 5.050 ALPHA (4) = 6.200 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1890	-.2484	.2735
.200	.2407		.0603
.410	.1098	.1722	.1187
.590	.1722	.2278	.1880
.770		-.0010	
.950	-.0712	-.0465	.0039

BETA (4) = 5.050 ALPHA (5) = 8.280 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1424	-.1464	.2942
.200	.2803		.0702
.410	.1483	.2078	.1592
.590	.2088	.2624	.2267
.770		.0484	
.950	-.0287	-.0039	.0425

BETA (4) = 5.050 ALPHA (6) = 10.330 Q(PSF) = 42.917 P0/PSF = 2117.0 RUN NO = 83.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0909	-.0415	.2919
.200	.3157		.1304
.410	.1828	.2493	.1977
.590	.2394	.3009	.2652
.770		.0918	
.950	.0147	.0404	.0869

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 510

0A163 ORB NOSE GEAR DOOR INNER SURFACE (RFFE.16)

BETA (5) = 10.110 ALPHA (1) = .030 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2933	-.2666	.0809
.200	.2055		-.0691
.410	.0651	.1214	.0226
.590	.0571	.1254	.0780
.770		-.1857	
.950	-.2064	-.1965	-.1412

BETA (5) = 10.110 ALPHA (2) = 2.060 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2060	-.1812	.0792
.200	.2399		-.0257
.410	.0950	.1574	.0613
.590	.0970	.1633	.1128
.770		-.1446	
.950	-.1773	-.1664	-.1129

BETA (5) = 10.110 ALPHA (3) = 4.130 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1159	-.0723	.0821
.200	.2727		.0197
.410	.1297	.1862	.1010
.590	.1267	.1922	.1505
.770		-.0990	
.950	-.1347	-.1307	-.0763

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 511

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE16)

BETA (5) = 10.110 ALPHA (4) = 6 210 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0188	.0356	.0832
.200	.3048		.0584
.410	.1536	.2232	.1347
.590	.1536	.2301	.1883
.770		-.0505	
.950	-.1001	-.0932	-.0456

BETA (5) = 10.110 ALPHA (5) = 8.260 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0683	.1397	.0961
.200	.3425		.1040
.410	.1913	.2540	.1714
.590	.1804	.2639	.2291
.770		.0019	
.950	-.0575	-.0545	-.0049

BETA (5) = 10.110 ALPHA (6) = 10.340 Q(PSF) = 42.903 PO/PSF = 2117.1 RUN NO = 84.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1731	.2753	.1246
.200	.3726		.1434
.410	.2207	.2833	.2009
.590	.2128	.3001	.2654
.770		.0504	
.950	-.0118	-.0079	.0326

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 512

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076 7000 IN. XO
LREF = 474.8100 INCHES YMRP = 0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 65.000
PHI-M = 88.000 THETAM = 65.000

BETA (1) = -10.110 ALPHA (1) = .010 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3348 -.6994 -.6806
.200 -.0416 -.1000
.410 -.0049 -.0317 -.0475
.590 -.0505 -.0307 -.0683
.770 -.1090
.950 -.2150 -.1932 -.1674

BETA (1) = -10.100 ALPHA (2) = 2.110 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2715 -.5847 -.5847
.200 .0326 -.0515
.410 .0515 .0326 .0118
.590 .0059 .0237 -.0139
.770 -.0634
.950 -.1833 -.1625 -.1348

BETA (1) = -10.100 ALPHA (3) = 4.170 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2102 -.4711 -.4760
.200 .1001 -.0010
.410 .1011 .0981 .0723
.590 .0555 .0981 .0406
.770 -.0049
.950 -.1478 -.1249 -.1051

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 513

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (1) = -10.100 ALPHA (4) = 6.230 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1509	-.3717	-.3865
.200	.1528		.0413
.410	.1478	.1528	.1311
.590	.1094	.1508	.0966
.770		.0433	
.950	-.1124	-.0937	-.0808

BETA (1) = -10.100 ALPHA (5) = 8.300 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0888	-.2715	-.2903
.200	.2015		.0888
.410	.1945	.2213	.1856
.590	.1569	.2134	.1648
.770		.0987	
.950	-.0819	-.0721	-.0513

BETA (1) = -10.110 ALPHA (6) = 10.360 Q(PSF) = 42.940 PO/PSF = 2117.2 RUN NO = 85.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0296	-.1877	-.2006
.200	.2334		.1343
.410	.2492	.2820	.2393
.590	.2066	.2721	.2155
.770		.1432	
.950	-.0553	-.0444	-.0217

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 514

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (2) = -5.060 ALPHA (1) = .010 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3520	-.6330	-.4250
.200	.1025		-.0828
.410	.0236	-.0138	-.0601
.590	-.0729	-.0798	-.1094
.770		-.1262	
.950	-.1765	-.1656	-.1430

BETA (2) = -5.060 ALPHA (2) = 2.120 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2747	-.5179	-.3340
.200	.1610		-.0197
.410	.0800	.0582	-.0148
.590	-.0217	-.0217	-.0583
.770		-.0800	
.950	-.1423	-.1255	-.1087

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1981	-.4112	-.2457
.200	.2081		.0376
.410	.1357	.1139	.0405
.590	.0336	.0306	-.0079
.770		-.0356	
.950	-.1030	-.0882	-.0723

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 515

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (2) = -5.060 ALPHA (4) = 6.210 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1238	- 3032	-.1496
.200	.2449		.1020
.410	.1863	.1644	.0941
.590	.0812	.0891	.0505
.770		.0138	
.950	-.0693	-.0505	-.0337

BETA (2) = -5.060 ALPHA (5) = 8.270 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0485	- 2041	-.0565
.200	.2767		.1495
.410	.2270	.2270	.1446
.590	.1386	.1456	.1050
.770		.0594	
.950	-.0356	-.0119	.0128

BETA (2) = -5.060 ALPHA (6) = 10.350 Q(PSF) = 42.932 PO/PSF = 2117.0 RUN NO = 86.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0128	-.1197	.0336
.200	.3092		.2129
.410	.2814	.2754	.2079
.590	.1860	.2019	.1612
.770		.1078	
.950	.0049	.0237	.0534

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 516

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (3) = .000 ALPHA (1) = .000 Q(PSF) = 42.885 P0/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3942	-.6452	-.0790
.200	.0750	-.0682	
.410	.0483	.0078	-.0049
.590	.0315	.0108	-.0237
.770		-.1324	
.950	-.1640	-.1610	-.1126

BETA (3) = .000 ALPHA (2) = 2.080 Q(PSF) = 42.885 P0/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3128	-.5213	.0337
.200	.1161		-.0030
.410	.0982	.0595	.0466
.590	.0823	.0714	.0307
.770		.0864	
.950	-.1271	-.1231	-.0665

BETA (3) = .000 ALPHA (3) = 4.140 Q(PSF) = 42.885 P0/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2350	-.4144	.1417
.200	.1596		.0614
.410	.1496	.1179	.0961
.590	.1328	.1278	.0822
.770		-.0426	
.950	-.0882	-.0813	-.0168

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 517

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (3) = .000 ALPHA (4) = 6.180 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1614	-.3219	.2458
.200	.2061		.1267
.410	.1981	-.1753	.1366
.590	.1822	.1872	.1406
.770		.0059	
.950	-.0495	-.0416	.0316

BETA (3) = .000 ALPHA (5) = 8.290 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0921	-.2297	.3213
.200	.2577		.1941
.410	.2428	.2309	.1832
.590	.2249	.2388	.1931
.770		.0514	
.950	-.0119	.0000	.0811

BETA (3) = .000 ALPHA (6) = 10.320 Q(PSF) = 42.885 PO/PSF = 2117.0 RUN NO = 87.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0316	-.1504	.3797
.200	.2962		.2406
.410	.2863	.2883	.2257
.590	.2714	.2913	.2456
.770		.0890	
.950	.0227	.0385	.1276

DATE 20 OCT '78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 518

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (4) = 5.050 ALPHA (1) = .000 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3845	-.6168	.1749
.200	.0968		.0187
.410	.1126	.0751	.0128
.590	.1136	.1274	.0731
.770		-.1107	
.950	-.1562	-.1492	-.0563

BETA (4) = 5.050 ALPHA (2) = 2.090 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3091	-.4790	.1966
.200	.1491		.0641
.410	.1570	.1273	.0543
.590	.1580	.1758	.1234
.770		-.0573	
.950	-.1225	-.1126	-.0128

BETA (4) = 5.060 ALPHA (3) = 4.130 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2539	-.3669	.2362
.200	.1944		.0832
.410	.2004	.1834	.1031
.590	.1994	.2213	.1715
.770		-.0089	
.950	-.0882	-.0783	.0188

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 519

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (4) = 5.060 ALPHA (4) = 6.180 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1906	-.2637	.2789
.200	.2412		.0957
.410	.2452	.2323	.1511
.590	.2422	.2660	.2174
.770		.0355	
.950	-.0533	-.0434	.0543

BETA (4) = 5.060 ALPHA (5) = 8.260 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1197	-.1593	.3012
.200	.2883		.0969
.410	.2873	.2783	.1959
.590	.2833	.3081	.2615
.770		.0811	
.950	-.0158	-.0049	.0939

BETA (4) = 5.060 ALPHA (6) = 10.370 Q(PSF) = 42.983 PO/PSF = 2117.1 RUN NO = 88.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0649	-.0482	.3005
.200	.3321		.1426
.410	.3252	.3213	.2433
.590	.3242	.3469	.3055
.770		.1229	
.950	.0206	.0393	.1269

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 520

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (5) = 10.120 ALPHA (1) = .010 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3171	-.3013	.0859
.200	.1907		-.0681
.410	.2016	.1817	.0651
.590	.1293	.1461	.0948
.770		-.1729	
.950	-.1995	-.1956	-.1057

BETA (5) = 10.120 ALPHA (2) = 2.050 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2241	-.1974	.0947
.200	.2291		-.0079
.410	.2420	.2232	.1065
.590	.1747	.1875	.1371
.770		-.1155	
.950	-.1678	-.1619	-.0740

BETA (5) = 10.120 ALPHA (3) = 4.140 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1157	-.0692	.1008
.200	-.2703		.0375
.410	.2832	.2624	.1473
.590	.2187	.2336	.1800
.770		-.0692	
.950	-.1335	-.1315	-.0415

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 521

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE17)

BETA (5) = 10.120 ALPHA (4) = 6.220 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0168	.0495	.1050
.200	.3098		.0783
.410	.3188	.3049	.1854
.590	.2581	.2730	.2233
.770		-.0198	
.950	-.0982	-.0942	-.0069

BETA (5) = 10.120 ALPHA (5) = 8.270 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0782	.1645	.1228
.200	.3465		.1119
.410	.3575	.3415	.2202
.590	.3027	.3147	.2659
.770		.0257	
.950	-.0634	-.0604	.0287

BETA (5) = 10.120 ALPHA (6) = 10.340 Q(PSF) = 42.933 PO/PSF = 2117.1 RUN NO = 89.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1780	.3200	.1404
.200	.3865		.1621
.410	.3964	.3815	.2614
.590	.3428	.3607	.3081
.770		.0761	
.950	-.0227	-.0227	.0662

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 522

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 80.000
PHI-M = 88.000 THETAM = 80.000

BETA (1) = -10.110 ALPHA (1) = .020 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3492 -.7430 -.7005
.200 -.0544 -.1009
.410 -.0257 -.0574 -.0890
.590 -.0999 -.0960 -.1167
.770 -.1395
.950 -.2810 -.2355 -.1929

BETA (1) = -10.110 ALPHA (2) = 2.050 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2842 -.6238 -.6060
.200 .0148 -.0465
.410 .0326 .0078 -.0277
.590 -.0416 -.0356 -.0683
.770 -.0940
.950 -.2465 -.1990 -.1643

BETA (1) = -10.110 ALPHA (3) = 4.110 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2176 -.5075 -.4956
.200 .0870 .0049
.410 .0840 .0721 .0385
.590 .0286 .0355 -.0059
.770 -.0415
.950 -.2127 -.1642 -.1375

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 523

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (1) = -10.110 ALPHA (4) = 5.150 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1802	-.4446	-.4496
.200	.1207		.0257
.410	.1108	.0990	.0692
.590	.0603	.0673	.0286
.770		-.0039	
.950	-.1911	-.1505	-.1307

BETA (1) = -10.110 ALPHA (5) = 6.210 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1528	-.3889	-.3978
.200	.1497		.0456
.410	.1507	.1358	.1021
.590	.0862	.1001	.0525
.770		.0158	
.950	-.1686	-.1260	-.1041

BETA (1) = -10.110 ALPHA (6) = 8.270 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0851	-.2869	-.2938
.200	.2019		.0870
.410	.2048	.2048	.1553
.590	.1562	.1701	.1167
.770		.0860	
.950	-.1276	-.0950	-.0860

DATE 20 OCT 78

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 524

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (1) = -10.110 ALPHA (7) = 10.340 Q (PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 90.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0228	-.1951	-.2040
.200	.2448		.1326
.410	.2577	.2746	.2230
.590	.2210	.2379	.1852
.770		.1416	
.950	-.0891	-.0683	-.0802

BETA (2) = -5.000 ALPHA (1) = .000 Q (PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4181	-.6608	-.4993
.200	.0564		-.1080
.410	.0039	-.0109	-.0386
.590	-.0337	-.0604	-.0832
.770		-.0951	
.950	-.2625	-.2259	-.1684

BETA (2) = -5.000 ALPHA (2) = 2.070 Q (PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3354	-.5481	-.4086
.200	.1018		-.0465
.410	.0534	.0365	.0128
.590	.0098	-.0128	-.0345
.770		-.0485	
.950	-.2285	-.1890	-.1306

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 525

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (2) = -5.000 ALPHA (3) = 4.110 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2581	-.4470	-.3085
.200	.1384		.0138
.410	.1008	.0860	.0514
.590	.0563	.0355	.0138
.770		-.0039	
.950	-.1928	-.1513	-.0910

BETA (2) = -5.000 ALPHA (4) = 6.190 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1649	-.3387	-.1857
.200	.1896		.0849
.410	.1510	.1362	.0898
.590	.1046	.0789	.0533
.770		.0384	
.950	-.1590	-.1116	-.0484

BETA (2) = -5.000 ALPHA (5) = 8.250 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0841	-.2375	-.0504
.200	.2664		.1543
.410	.2049	.1930	.1335
.590	.1424	.1137	.0910
.770		.0801	
.950	-.1128	-.0712	-.0148

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 526

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (2) = -5.000 ALPHA (6) = 10.330 Q(PSF) = 42.950 PO/PSF = 2117.1 RUN NO = 91.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.0020	-.1363	.0671
.200	.2986		.2114
.410	.2570	.2540	.1807
.590	.1827	.1718	.1451
.770		.1214	
.950	-.0790	-.0345	.0216

BETA (3) = .000 ALPHA (1) = .010 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.4174	-.6901	-.0922
.200	.0664		-.0733
.410	.0436	.0000	-.0139
.590	.0535	.0138	-.0277
.770		-.0932	
.950	-.2429	-.2211	-.1735

BETA (3) = .000 ALPHA (2) = 2.060 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3327	-.5555	.0227
.200	.1059		-.0059
.410	.0930	.0574	.0376
.590	.1029	.0732	.0247
.770		-.0525	
.950	-.2069	-.1822	-.1307

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 527

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (3) = .000 ALPHA (3) = 4.110 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2506	-.4378	.1257
.200	.1485		.0584
.410	.1416	.1128	.0871
.590	.1525	.1267	.0792
.770		-.0119	
.950	-.1713	-.1416	-.0802

BETA (3) = .000 ALPHA (4) = 6.180 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1740	-.3372	.2345
.200	.1988		.1196
.410	.1968	.1730	.1364
.590	.1998	.1849	.1305
.770		.0335	
.950	-.1365	-.0999	-.0326

BETA (3) = .000 ALPHA (5) = 8.240 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1061	-.2421	.3130
.200	.2473		.1895
.410	.2423	.2303	.1776
.590	.2492	.2443	.1875
.770		.0823	
.950	-.0982	-.0615	.0158

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 528

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (3) = .000 ALPHA (6) = 10.310 Q(PSF) = 42.888 PO/PSF = 2117.1 RUN NO = 92.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0356	-.1572	.3744
.200	.2891		.2454
.410	.2910	.2871	.2246
.590	.2930	.2980	.2385
.770		.1225	
.950	-.0563	-.0148	.0672

BETA (4) = 5.000 ALPHA (1) = -.020 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3997	-.6501	.1771
.200	.0761		.0148
.410	.0969	.0642	.0039
.590	.1187	.1078	.0454
.770		-.1177	
.950	-.2711	-.2285	-.1385

BETA (4) = 5.000 ALPHA (2) = 2.100 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3167	-.5047	.1960
.200	.1365		.0692
.410	.1454	.1167	.0445
.590	.1682	.1603	.1009
.770		-.0653	
.950	-.2355	-.1890	-.0930

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 529

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (4) = 5.000 ALPHA (3) = 4.110 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2528	-.3886	.2202
.200	.1834		.0872
.410	.1924	.1705	.0931
.590	.2083	.2073	.1447
.770		-.0139	
.950	-.2022	-.1507	-.0525

BETA (4) = 5.000 ALPHA (4) = 6.170 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1879	-.2779	.2574
.200	.2346		.1008
.410	.2346	.2257	.1443
.590	.2554	.2564	.1979
.770		.0336	
.950	-.1662	-.1108	-.0109

BETA (4) = 5.000 ALPHA (5) = 8.290 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1159	-.1744	.2996
.200	.2827		.1050
.410	.2827	.2748	.1873
.590	.2986	.3046	.2469
.770		.0832	
.950	-.1278	-.0674	.0326

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (4) = 5.000 ALPHA (6) = 10.310 Q(PSF) = 42.912 PO/PSF = 2117.1 RUN NO = 93.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0563	-.0613	.3099
.200	.3287		.1502
.410	.3277	.3198	.2305
.590	.3416	.3515	.2950
.770		.1314	
.950	-.0850	-.0207	.0820

BETA (5) = 10.000 ALPHA (1) = .000 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3438	-.3428	.0871
.200	.1654		-.0882
.410	.1833	.1594	.0356
.590	.1347	.1386	.0752
.770		-.1615	
.950	-.2586	-.2338	-.1575

BETA (5) = 10.000 ALPHA (2) = 2.080 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2436	-.2287	.1049
.200	.2110		-.0317
.410	.2249	.2030	.0831
.590	.1812	.1812	.1197
.770		-.1129	
.950	-.2356	-.2079	-.1267

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 531

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (5) = 10.000 ALPHA (3) = 4.120 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1476	-.1060	.1089
.200	.2528		.0306
.410	.2707	.2489	.1228
.590	.2270	.2300	.1614
.770		-.0673	
.950	-.2060	-.1773	-.0941

BETA (5) = 10.000 ALPHA (4) = 6.200 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0425	.0257	.1147
.200	.2942		.0741
.410	.3131	.2923	.1681
.590	.2734	.2734	.2059
.770		-.0148	
.950	-.1741	-.1405	-.0524

BETA (5) = 10.000 ALPHA (5) = 8.250 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0534	.1407	.1228
.200	.3355		.1080
.410	.3544	.3365	.2072
.590	.3206	.3206	.2510
.770		.0376	
.950	-.1417	-.1021	-.0178

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 532

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE18)

BETA (5) = 10.000 ALPHA (6) = 10.360 Q(PSF) = 42.882 PO/PSF = 2117.2 RUN NO = 94.000

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .1526 .3077 .1496

.200 .3774 .1575

.410 .3943 .3764 .2500

.590 .3664 .3644 .2948

.770 .0911

.950 -.1021 -.0624 .0237

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 533

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BOFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 95.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.070 ALPHA (1) = .010 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3542 -.7816 -.7114
.200 -.0544 -.0999
.410 -.0534 -.0811 -.1039
.590 -.1128 -.1177 -.1306
.770 -.1266
.950 -.3107 -.2533 -.1998

BETA (1) = -10.070 ALPHA (2) = 2.060 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2900 -.6516 -.6119
.200 .0079 -.0407
.410 .0079 -.0258 -.0566
.590 -.0705 -.0745 -.0864
.770 -.0864
.950 -.2821 -.2255 -.1738

BETA (1) = -10.070 ALPHA (3) = 4.150 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2241 -.5275 -.5057
.200 .0812 .0128
.410 .0604 .0376 .0000
.590 -.0.98 -.0268 -.0426
.770 -.0406

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 534

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (1) = -10.070 ALPHA (4) = 6.210 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1476	-.4023	-.3943
.200	.1575		.0604
.410	.1238	.1149	.0752
.590	.0455	.0425	.0049
.770		.0039	
.950	-.2061	-.1575	-.1030

BETA (1) = -10.070 ALPHA (5) = 8.250 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0842	-.3023	-.2954
.200	.2053		.0852
.410	.2082	.1933	.1417
.590	.1169	.1119	.0663
.770		.0584	
.950	-.1556	-.1170	-.0714

BETA (1) = -10.070 ALPHA (6) = 10.360 Q(PSF) = 42.892 PO/PSF = 2125.6 RUN NO = 145.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0128	-.1911	-.2039
.200	.2475		.1280
.410	.2554	.2623	.2040
.590	.1763	.1803	.1290
.770		.1201	
.950	-.1044	-.0689	-.0305

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 535

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (2) = -5.050 ALPHA (1) = -.010 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4375	-.6873	-.5086
.200	.0434		-.1195
.410	-.0168	-.0286	-.0533
.590	-.0424	-.0652	-.0800
.770		-.0859	
.950	-.2785	-.2360	-.1787

BETA (2) = -5.050 ALPHA (2) = 2.050 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3545	-.5747	-.4157
.200	.0888		-.0602
.410	.0374	.0246	.0029
.590	.0068	-.0138	-.0336
.770		-.0385	
.950	-.2360	-.1975	-.1382

BETA (2) = -5.050 ALPHA (3) = 4.120 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2723	-.4687	-.3177
.200	.1282		-.0010
.410	.0887	.0818	.0611
.590	.0552	.0394	.0216
.770		.0058	
.950	-.1973	-.1598	-.0967

C-7

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 536

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (2) = -5.050 ALPHA (4) = 6.190 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1922	-.3637	-.2140
.200	.1704		.0663
.410	.1367	.1347	.1169
.590	.1060	.0911	.0733
.770		.0515	
.950	-.1585	-.1199	-.0545

BETA (2) = -5.050 ALPHA (5) = 8.260 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1160	-.2667	-.1051
.200	.2202		.1328
.410	.1844	.1874	.1705
.590	.1586	.1467	.1278
.770		.1001	
.950	-.1150	-.0783	-.0089

BETA (2) = -5.050 ALPHA (6) = 10.310 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 146.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0395	-.1708	-.0069
.200	.2748		.1915
.410	.2371	.2411	.2173
.590	.2064	.2005	.1697
.770		.1451	
.950	-.0760	-.0375	.0325

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 537

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (3) = -.010 ALPHA (1) = -.010 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4385	-.7183	-.1103
.200	.0521		-.0896
.410	.0236	-.0148	-.0167
.590	.0265	-.0019	-.0286
.770		-.0975	
.950	-.2631	-.2434	-.1852

BETA (3) = -.010 ALPHA (2) = 2.040 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3506	-.5816	.0088
.200	.0937		-.0187
.410	.0740	.0404	.0355
.590	.0819	.0552	.0246
.770		-.0494	
.950	-.2241	-.2074	-.1412

BETA (3) = -.010 ALPHA (3) = 4.110 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2663	-.4693	.1197
.200	.1395		.0484
.410	.1296	.1049	.0910
.590	.1356	.1178	.0811
.770		-.0049	
.950	-.1851	-.1584	-.0940

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 538

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1826	-.3553	.2284
.200	.1906		.1131
.410	.1816	.1637	.1399
.590	.1916	.1796	.1369
.770		.0456	
.950	-.1439	-.1151	-.0466

BETA (3) = -.010 ALPHA (5) = 8.280 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1098	-.2532	.3120
.200	.2415		.1869
.410	.2375	.2217	.1889
.590	.2405	.2365	.1949
.770		.0929	
.950	-.0920	-.0722	.0059

BETA (3) = -.010 ALPHA (6) = 10.330 Q(PSF) = 42.965 PO/PSF = 2125.5 RUN NO = 147.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0365	-.1629	.3748
.200	.2876		.2490
.410	.2827	.2817	.2292
.590	.2867	.2956	.2500
.770		.1451	
.950	-.0513	-.0237	.0522

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 539

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (4) = 5.040 ALPHA (1) = -.020 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4114	-.6669	.1815
.200	.0680		.0137
.410	.0798	.0591	.0147
.590	.1006	.0946	.0443
.770		-.1095	
.950	-.2822	-.2555	-.1519

BETA (4) = 5.040 ALPHA (2) = 2.050 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3289	-.5284	.1966
.200	.1273		.0651
.410	.1323	.1125	.0542
.590	.1471	.1461	.0987
.770		-.0573	
.950	-.2469	-.2133	-.1047

BETA (4) = 5.040 ALPHA (3) = 4.110 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2563	-.3968	.2238
.200	.1781		.0989
.410	.1781	.1652	.0979
.590	.1930	.1940	.1513
.770		-.0049	
.950	-.2038	-.1742	-.0623

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 540

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (4) = 5.040 ALPHA (4) = 6.200 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1922	-.2874	.2659
.200	.2291		.1179
.410	.2291	.2221	.1516
.590	.2400	.2460	.2022
.770		.0455	
.950	-.1665	-.1407	-.0228

BETA (4) = 5.040 ALPHA (5) = 8.240 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1208	-.1792	.3015
.200	.2796		.1267
.410	.2766	.2726	.1961
.590	.2895	.2965	.2538
.770		.0930	
.950	-.1277	-.0970	.0178

BETA (4) = 5.040 ALPHA (6) = 10.310 Q(PSF) = 42.938 PO/PSF = 2125.4 RUN NO = 148.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0495	-.0634	.3143
.200	.3283		.1623
.410	.3233	.3233	.2438
.590	.3332	.3422	.3034
.770		.1415	
.950	-.0832	-.0485	.0554

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 541

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (5) = 10.080 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3399	-.3310	.0790
.200	.1590		-.0761
.410	.1620	.1452	.0424
.590	.1215	.1343	.0918
.770		-.1462	
.950	-.3004	-.2599	-.1452

BETA (5) = 10.080 ALPHA (2) = 2.040 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2455	-.2227	.0979
.200	.2030		-.0178
.410	.2080	.1941	.0880
.590	.1643	.1762	.1336
.770		-.1069	
.950	-.2693	-.2346	-.1178

BETA (5) = 10.080 ALPHA (3) = 4.100 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1457	-.0932	.1120
.200	.2501		.0396
.410	.2571	.2431	.1318
.590	.2143	.2232	.1824
.770		-.0555	
.950	-.2380	-.2043	-.0902

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 542

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE19)

BETA (5) = 10.080 ALPHA (4) = 6.180 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0406	.0237	.1188
.200	.2925		.0871
.410	.3035	.2905	.1802
.590	.2637	.2707	.2279
.770		.0000	
.950	-.2060	-.1713	-.0614

BETA (5) = 10.080 ALPHA (5) = 8.260 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0554	.1585	.1406
.200	.3355		.1238
.410	.3474	.3365	.2241
.590	.3166	.3205	.2728
.770		.0544	
.950	-.1694	-.1347	-.0257

BETA (5) = 10.080 ALPHA (6) = 10.310 Q(PSF) = 42.905 PO/PSF = 2125.6 RUN NO = 149.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1552	.3228	.1601
.200	.3784		.1720
.410	.3923	.3804	.2672
.590	.3605	.3645	.3218
.770		.1126	
.950	-.1315	-.0989	.0118

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 543

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1976.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.030 ALPHA (1) = .010 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3571 -.7827 -.7182
.200 -.0575 -.1101
.410 -.0654 -.0873 -.1150
.590 -.1170 -.1210 -.1299
.770 -.1299
.950 -.2986 -.2559 -.2113

BETA (1) = -10.030 ALPHA (2) = 2.090 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2933 -.6521 -.6115
.200 .0079 -.0456
.410 .0019 -.0307 -.0634
.590 -.0703 -.0763 -.0872
.770 -.0852
.950 -.2695 -.2249 -.1823

BETA (1) = -10.030 ALPHA (3) = 4.150 Q(PSF) = 42.885 PO/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2256 -.5254 -.5027
.200 .0761 .0088
.410 .0543 .0247 -.0158
.590 -.0.98 -.0267 -.0396
.770 -.0405
.950 -.2375 -.1890 -.1474

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 544

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (1) = -10.030 ALPHA (4) = 6.240 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1495	-.4069	-.3960
.200	.1494		.0623
.410	.1078	.0969	.0732
.590	.0356	.0336	.0049
.770		.0088	
.950	-.2009	-.1554	-.1168

BETA (1) = -10.030 ALPHA (5) = 8.310 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0772	-.2959	-.2959
.200	.2089		.0880
.410	.1851	.1821	.1484
.590	.1039	.1058	.0603
.770		.0583	
.950	-.1534	-.1128	-.0683

BETA (1) = -10.040 ALPHA (6) = 10.360 Q(PSF) = 42.885 P0/PSF = 2117.2 RUN NO = 130.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0129	-.1892	-.1961
.200	.2488		.1317
.410	.2578	.2518	.1981
.590	.1703	.1763	.1327
.770		.1218	
.950	-.1040	-.0683	-.0406

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 545

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (2) = -5.020 ALPHA (1) = .030 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4398	-.6835	-.5329
.200	.0306		-.1258
.410	-.0247	-.0346	-.0614
.590	-.0455	-.0634	-.0792
.770		-.0862	
.950	-.2595	-.2357	-.1862

BETA (2) = -5.020 ALPHA (2) = 2.060 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3606	-.5816	-.4389
.200	.0782		-.0713
.410	.0257	.0187	-.0089
.590	.0019	-.0158	-.0327
.770		-.0406	
.950	-.2199	-.2001	-.1466

BETA (2) = -5.020 ALPHA (3) = 4.130 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2809	-.4728	-.3373
.200	.1157		-.0079
.410	.0751	.0682	.0434
.590	.0494	.0345	.0197
.770		.0049	
.950	-.1820	-.1612	-.1058

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 546

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (2) = -5.020 ALPHA (4) = 6.210 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2016	-.3687	-.2352
.200	.1610		.0553
.410	.1274	.1225	.1057
.590	.1017	.0879	.0760
.770		.0493	
.950	-.1393	-.1196	-.0613

BETA (2) = -5.030 ALPHA (5) = 8.290 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1227	-.2741	-.1286
.200	.2109		.1167
.410	.1751	.1781	.1692
.590	.1543	.1464	.1296
.770		.0999	
.950	-.1009	-.0762	-.0198

BETA (2) = -5.030 ALPHA (6) = 10.400 Q(PSF) = 42.927 PO/PSF = 2117.1 RUN NO = 131.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0494	-.1779	-.0138
.200	.2671		.1848
.410	.2245	.2314	.2205
.590	.2066	.2066	.1788
.770		.1482	
.950	-.0583	-.0405	.0256

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 547

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (3) = -.010 ALPHA (1) = .010 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4453	-.7125	-.1425
.200	.0454		-.1009
.410	.0128	-.0267	-.0307
.590	.0177	-.0128	-.0445
.770		-.1049	
.950	-.2513	-.2504	-.2048

BETA (3) = -.010 ALPHA (2) = 2.060 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3574	-.5792	-.0218
.200	.0841		-.0287
.410	.0623	.0276	.0227
.590	.0702	.0455	.0098
.770		-.0614	
.950	-.2158	-.2129	-.1624

BETA (3) = -.010 ALPHA (3) = 4.130 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2721	-.4671	.1038
.200	.1306		.0395
.410	.1157	.0890	.0732
.590	.1236	.1038	.0613
.770		-.0158	
.950	-.1831	-.1682	-.1158

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ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 548

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (3) = -.010 ALPHA (4) = 6.200 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1953	-.3559	.2053
.200	.1814		.1040
.410	.1724	.1506	.1248
.590	.1734	.1655	.1199
.770		.0287	
.950	-.1398	-.1288	-.0664

BETA (3) = -.010 ALPHA (5) = 8.340 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1187	-.2571	.3050
.200	.2326		.1750
.410	.2236	.2107	.1720
.590	.2246	.2266	.1760
.770		.0820	
.950	-.0989	-.0900	-.0217

BETA (3) = -.010 ALPHA (6) = 10.350 Q(PSF) = 42.907 PO/PSF = 2117.1 RUN NO = 132.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0455	-.1703	.3640
.200	.2775		.2398
.410	.2735	.2735	.2189
.590	.2765	.2805	.2278
.770		.1286	
.950	-.0623	-.0485	.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 549

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (4) = 5.030 ALPHA (1) = .020 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4178	-.6732	.1811
.200	.0643		.0029
.410	.0722	.0494	-.0099
.590	.0890	.0841	.0267
.770		-.1168	
.950	-.2614	-.2624	-.1822

BETA (4) = 5.030 ALPHA (2) = 2.070 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3344	-.5294	.2019
.200	.1187		.0464
.410	.1216	.1009	.0306
.590	.1375	.1315	.0751
.770		-.0673	
.950	-.2256	-.2236	-.1395

BETA (4) = 5.030 ALPHA (3) = 4.120 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2651	-.4056	.2316
.200	.1721		.0741
.410	.1721	.1542	.0801
.590	.1820	.1820	.1256
.770		-.0148	
.950	-.1899	-.1869	-.1029

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 550

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (4) = 5.030 ALPHA (4) = 6.200 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2022	-.2983	.2689
.200	.2211		.0881
.410	.2162	.2102	.1308
.590	.2281	.2301	.1774
.770		.0297	
.950	-.1536	-.1487	-.0604

BETA (4) = 5.030 ALPHA (5) = 8.280 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1336	-.1851	.3014
.200	.2736		.0940
.410	.2656	.2617	.1782
.590	.2766	.2805	.2259
.770		.0781	
.950	-.1129	-.1059	-.0188

BETA (4) = 5.030 ALPHA (6) = 10.340 Q(PSF) = 42.912 PO/PSF = 2117.0 RUN NO = 133.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0662	-.0732	.3109
.200	.3199		.1423
.410	.3119	.3100	.2266
.590	.3209	.3248	.2752
.770		.1285	
.950	-.0722	-.0613	.0197

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 551

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (5) = 10.050 ALPHA (1) = .030 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3636	-.3616	.0841
.200	.1495	-.0981	
.410	.1535	.1357	.0197
.590	.1159	.1248	.0653
.770		-.1496	
.950	-.2834	-.2675	-.1714

BETA (5) = 10.050 ALPHA (2) = 2.100 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2672	-.2553	.0930
.200	.1950	-.0277	
.410	.1990	.1821	.0643
.590	.1613	.1682	.1088
.770		-.1029	
.950	-.2474	-.2336	-.1425

BETA (5) = 10.040 ALPHA (3) = 4.170 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1625	-.1377	.0990
.200	.2399	.0257	
.410	.2459	.2350	.1069
.590	.2081	.2151	.1515
.770		-.0525	
.950	-.2160	-.2021	-.1139

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 552 PAG.

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE20)

BETA (5) = 10.040 ALPHA (4) = 6.230 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0603	-.0168	.0987
.200	.2839		.0571
.410	.2929	.2790	.1501
.590	.2562	.2601	.1986
.770		-.0039	
.950	-.1828	-.1690	-.0859

BETA (5) = 10.040 ALPHA (5) = 8.280 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0346	.1218	.1128
.200	.3254		.1059
.410	.3383	.3204	.1961
.590	.3065	.3075	.2409
.770		.0455	
.950	-.1485	-.1317	-.0445

BETA (5) = 10.050 ALPHA (6) = 10.350 Q(PSF) = 42.900 PO/PSF = 2117.2 RUN NO = 134.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1386	.2916	.1416
.200	.3662		.1466
.410	.3791	.3642	.2350
.590	.3493	.3573	.2847
.770		.1040	
.950	-.1109	-.0931	-.0069

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 553

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 5.000
BDFLAP = -11.700 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.050 ALPHA (1) = .050 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3525 -.7713 -.7188
.200 -.0544 -.1089
.410 -.0633 -.0851 -.1158
.590 -.1158 -.1188 -.1317
.770 -.1297
.950 -.3020 -.2564 -.2089

BETA (1) = -10.050 ALPHA (2) = 2.160 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2940 -.6484 -.6107
.200 .0078 -.0475
.410 .0000 -.0297 -.0623
.590 -.0712 -.0752 -.0891
.770 -.0861
.950 -.2712 -.2237 -.1791

BETA (1) = -10.050 ALPHA (3) = 4.190 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2281 -.5315 -.5027
.200 .0773 .0128
.410 .0525 .0297 -.0168
.590 .0210 .0110 .0000

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 554

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (1) = -10.050 ALPHA (4) = 6 250 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1512	-.4063	-.3954
.200	.1522		.0602
.410	.1067	.0879	.0701
.590	.0325	.0306	.0059
.770		.0078	
.950	-.1987	-.1522	-.1147

BETA (1) = -10.050 ALPHA (5) = 8.340 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0821	-.2910	-.2930
.200	.2050		.0910
.410	.2000	.1791	.1444
.590	.1157	.0989	.0653
.770		.0603	
.950	-.1524	-.1168	-.0712

BETA (1) = -10.050 ALPHA (6) = 10.430 Q(PSF) = 42.917 PO/PSF = 2120.7 RUN NO = 105.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0128	-.1927	-.1957
.200	.2493		.1304
.410	.2542	.2582	.2017
.590	.1729	.1779	.1284
.770		.1225	
.950	-.1008	-.0741	-.0356

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 555

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (2) = -5.050 ALPHA (1) = .070 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4396	-.6871	-.5316
.200	.0316		-.1277
.410	-.0237	-.0366	-.0633
.590	-.0475	-.0663	-.0812
.770		-.0871	
.950	-.2574	-.2376	-.1871

BETA (2) = -5.050 ALPHA (2) = 2.130 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3603	-.5791	-.4345
.200	.0791		-.0693
.410	.0257	.0177	-.0069
.590	.0009	-.0168	-.0326
.770		-.0406	
.950	-.2178	-.1989	-.1465

BETA (2) = -5.050 ALPHA (3) = 4.160 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2801	-.4701	-.3414
.200	.1177		-.0089
.410	.0781	.0702	.0474
.590	.0524	.0375	.0197
.770		.0059	
.950	-.1801	-.1623	-.1039

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 556

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (2) = -5.060 ALPHA (4) = 6.240 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1987	-.3667	-.2432
.200	.1611		.0553
.410	.1275	.1225	.1097
.590	.0998	.0869	.0731
.770		.0513	
.950	-.1404	-.1216	-.0632

BETA (2) = -5.060 ALPHA (5) = 8.320 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1244	-.2725	-.1372
.200	.2134		.1204
.410	.1737	.1767	.1678
.590	.1520	.1441	.1293
.770		.1016	
.950	-.0997	-.0790	-.0187

BETA (2) = -5.060 ALPHA (6) = 10.400 Q(PSF) = 42.950 PO/PSF = 2120.6 RUN NO = 106.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0494	-.1779	-.0267
.200	.2651		.1868
.410	.2235	.2294	.2244
.590	.2056	.2036	.1828
.770		.1472	
.950	-.0603	-.0356	.0236

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-75!)

PAGE 557

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (3) = -.030 ALPHA (1) = .060 Q(PSF) = 42.928 P0/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4412	-.7104	-.1484
.200	.0444		-.1029
.410	.0138	-.0257	-.0326
.590	.0177	-.0128	-.0455
.770		-.1078	
.950	-.2533	-.2503	-.2028

BETA (3) = -.030 ALPHA (2) = 2.130 Q(PSF) = 42.928 P0/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3572	-.5808	-.0168
.200	.0840		-.0297
.410	.0633	.0266	.0207
.590	.0702	.0445	.0069
.770		-.0633	
.950	-.2186	-.2117	-.1632

BETA (3) = -.030 ALPHA (3) = 4.230 Q(PSF) = 42.928 P0/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2724	-.4586	.1029
.200	.1307		.0376
.410	.1218	.0901	.0742
.590	.1247	.1049	.0633
.770		-.0158	
.950	-.1773	-.1664	-.1129

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 558

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (3) = -.030 ALPHA (4) = 6.240 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO. = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1941	-.3565	.2080
.200	.1782		.1069
.410	.1703	.1515	.1237
.590	.1782	.1633	.1158
.770		.0296	
.950	-.1406	-.1277	-.0693

BETA (3) = -.030 ALPHA (5) = 8.310 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1176	-.2619	.3058
.200	.2314		.1778
.410	.2215	.2126	.1709
.590	.2245	.2235	.1739
.770		.0810	
.950	-.0988	-.0869	-.0217

BETA (3) = -.030 ALPHA (6) = 10.400 Q(PSF) = 42.928 PO/PSF = 2120.6 RUN NO = 107.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0474	-.1720	.3685
.200	.2792		.2395
.410	.2752	.2702	.2156
.590	.2792	.2821	.2315
.770		.1314	
.950	-.0573	-.0464	.0237

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 559

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (4) = 5.000 ALPHA (1) = .070 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4145	-.6737	.1870
.200	.0632		.0049
.410	.0712	.0474	-.0118
.590	.0890	.0840	.0227
.770		-.1187	
.950	-.2612	-.2631	-.1840

BETA (4) = 5.000 ALPHA (2) = 2.140 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3324	-.5283	.2019
.200	.1216		.0464
.410	.1236	.1018	.0296
.590	.1355	.1335	.0761
.770		-.0673	
.950	-.2256	-.2265	-.1395

BETA (4) = 5.000 ALPHA (3) = 4.160 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2624	-.4060	.2309
.200	.1712		.0722
.410	.1703	.1554	.0791
.590	.1832	.1832	.1247
.770		-.0138	
.950	-.1921	-.1852	-.0970

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 560

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (4) = 5.000 ALPHA (4) = 6.250 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2012	-.2994	.2739
.200	.2222		.0891
.410	.2172	.2112	.1338
.590	.2282	.2351	.1754
.770		.0316	
.950	-.1536	-.1457	-.0595

BETA (4) = 5.000 ALPHA (5) = 8.320 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1306	-.1850	.3032
.200	.2724		.0910
.410	.2655	.2605	.1761
.590	.2764	.2804	.2268
.770		.0791	
.950	-.1128	-.1069	-.0188

BETA (4) = 5.000 ALPHA (6) = 10.390 Q(PSF) = 42.917 PO/PSF = 2120.5 RUN NO = 108.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0642	-.0721	.3059
.200	.3208		.1423
.410	.3108	.3099	.2255
.590	.3198	.3277	.2771
.770		.1294	
.950	-.0712	-.0613	.0207

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 561

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (5) = 10.020 ALPHA (1) = .040 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3612	-.3602	.0841
.200	.1494		-.0970
.410	.1523	.1355	.0187
.590	.1157	.1246	.0652
.770		-.1474	
.950	-.2801	-.2672	-.1752

BETA (5) = 10.020 ALPHA (2) = 2.120 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2688	-.2570	.0928
.200	.1947		-.0257
.410	.1987	.1822	.0632
.590	.1620	.1690	.1096
.770		-.1048	
.950	-.2511	-.2352	-.1453

BETA (5) = 10.020 ALPHA (3) = 4.190 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1635	-.1368	.0961
.200	.2430		.0247
.410	.2470	.2311	.1080
.590	.2092	.2152	.1516
.770		-.0555	
.950	-.2180	-.2042	-.1150

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 562

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE21)

BETA (5) = 10.010 ALPHA (4) = 6.250 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0645	-.0248	.0962
.200	-.2841		.0644
.410	.2950	.2791	.1537
.590	.2562	.2582	.1954
.770		-.0039	
.950	-.1855	-.1716	-.0803

BETA (5) = 10.010 ALPHA (5) = 8.360 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0405	.1157	.1088
.200	.3290		.1048
.410	.3380	.3270	.1989
.590	.3052	.3092	.2416
.770		.0514	
.950	-.1484	-.1316	-.0445

BETA (5) = 10.010 ALPHA (6) = 10.420 Q(PSF) = 42.895 PO/PSF = 2120.6 RUN NO = 109.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1416	.2935	.1376
.200	.3691		.1485
.410	.3810	.3691	.2349
.590	.3552	.3592	.2886
.770		.1059	
.950	-.1069	-.0891	-.0099

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 563

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 5.000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.020 ALPHA (1) = 060 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3510 -.7693 -.7100
.200 -.0534 -.1078
.410 -.0633 -.0830 -.1097
.590 -.1048 -.1137 -.1305
.770 -.1275
.950 -.2976 -.2551 -.2086

BETA (1) = -10.020 ALPHA (2) = 2.110 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2870 -.6549 -.6096
.200 .0068 -.0454
.410 .0009 -.0276 -.0631
.590 -.0720 -.0730 -.0888
.770 -.0848
.950 -.2673 -.2239 -.1825

BETA (1) = -10.020 ALPHA (3) = 4.160 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2219 -.5241 -.5003
.200 .0792 .0118
.410 .0584 .0267 -.0109
.590 -.0158 -.0247 -.0416
.770 -.0386
.950 -.2308 -.1862 -.1456

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 564

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (1) = -10.020 ALPHA (4) = 6.230 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1477	-.4007	-.3958
.200	.1525		.0600
.410	.1141	.0866	.0580
.590	.0354	.0295	.0068
.770		.0048	
.950	-.1989	-.1536	-.1171

BETA (1) = -10.020 ALPHA (5) = 8.290 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0760	-.2923	-.2952
.200	.2064		.0868
.410	.1896	.1787	.1471
.590	.1036	.1066	.0671
.770		.0602	
.950	-.1511	-.1135	-.0642

BETA (1) = -10.020 ALPHA (6) = 10.380 Q(PSF) = 43.010 PO/PSF = 2120.8 RUN NO = 110.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0158	-.1885	-.1994
.200	.2499		.1263
.410	.2509	.2480	.1974
.590	.1766	.1786	.1253
.770		.1174	
.950	-.0967	-.0730	-.0395

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 565

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (2) = -5.020 ALPHA (1) = .020 Q(PSF) = 42.915 PO/PSF = .2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4422	-.6881	-.5304
.200	.0326		-.1289
.410	-.0238	-.0347	-.0634
.590	-.0456	-.0644	-.0813
.770		-.0862	
.950	-.2617	-.2399	-.1874

BETA (2) = -5.020 ALPHA (2) = 2.100 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3596	-.5790	-.4328
.200	.0770		-.0672
.410	.0276	.0167	-.0089
.590	.0029	-.0138	-.0326
.770		-.0385	
.950	-.2183	-.1996	-.1442

BETA (2) = -5.020 ALPHA (3) = 4.150 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2810	-.4778	-.3423
.200	.1177		-.0059
.410	.0761	.0702	.0484
.590	.0514	.0385	.0187
.770		.0059	
.950	-.1800	-.1593	-.1039

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 566

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (2) = -5.020 ALPHA (4) = 6.220 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1951	-.3685	-.2357
.200	.1614		.0564
.410	.1307	.1277	.1089
.590	.1039	.0901	.0742
.770		.0534	
.950	-.1377	-.1159	-.0634

BETA (2) = -5.020 ALPHA (5) = 8.290 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1238	-.2674	-.1307
.200	.2110		.1217
.410	.1752	.1772	.1673
.590	.1544	.1455	.1277
.770		.1039	
.950	-.0970	-.0782	-.0158

BETA (2) = -5.020 ALPHA (6) = 10.380 Q(PSF) = 42.915 PO/PSF = 2120.6 RUN NO = 111.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0494	-.1799	-.0217
.200	.2632		.1849
.410	.2206	.2335	.2216
.590	.2047	.2037	.1809
.770		.1443	
.950	-.0613	-.0385	.0237

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 567

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (3) = .010 ALPHA (1) = .010 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4402	-.7091	-.1388
.200	.0442		-.1004
.410	.0117	-.0276	-.0305
.590	.0186	-.0128	-.0453
.770		-.1044	
.950	-.2501	-.2491	-.2029

BETA (3) = .010 ALPHA (2) = 2.090 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3550	-.5809	-.0118
.200	.0847		-.0286
.410	.0640	.0295	.0216
.590	.0699	.0443	.0118
.770		-.0601	
.950	-.2160	-.2110	-.1607

BETA (3) = .010 ALPHA (3) = 4.140 Q(PSF) = 43.015 PO/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2699	-.4706	.1028
.200	.1294		.0365
.410	.1186	.0889	.0721
.590	.1235	.1057	.0632
.770		-.0198	
.950	-.1809	-.1671	-.1147

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

PAGE 569

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

QA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (3) = .010 ALPHA (4) = 6.200 Q(PSF) = 43.015 PQ/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1900	-.3562	.2069
.200	.1821		.1019
.410	.1731	.1523	.1246
.590	.1731	.1552	.1197
.770		.0266	
.950	-.1395	-.1276	-.0663

BETA (3) = .010 ALPHA (5) = 8.290 Q(PSF) = 43.015 PQ/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1186	-.2570	.3039
.200	.2364		.1769
.410	.2225	.2126	.1710
.590	.2255	.2255	.1779
.770		.0780	
.950	-.0978	-.0870	-.0217

BETA (3) = .010 ALPHA (6) = 10.370 Q(PSF) = 43.015 PQ/PSF = 2120.6 RUN NO = 112.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0464	-.1707	.3717
.200	.2776		.2400
.410	.2727	.2727	.2162
.590	.2766	.2836	.2341
.770		.1292	
.950	-.0582	-.0473	.0236

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 569

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (4) = 5.040 ALPHA (1) = .000 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4144	-.6699	.1874
.200	.0641		.0039
.410	.0700	.0473	-.0098
.590	.0897	.0838	.0255
.770		-.1154	
.950	-.2614	-.2634	-.1795

BETA (4) = 5.040 ALPHA (2) = 2.080 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3322	-.5270	.2077
.200	.1195		.0504
.410	.1225	.1008	.0306
.590	.1374	.1324	.0780
.770		-.0642	
.950	-.2284	-.2254	-.1384

BETA (4) = 5.030 ALPHA (3) = 4.170 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2641	-.3987	.2327
.200	.1721		.0771
.410	.1721	.1592	.0820
.590	.1830	.1830	.1285
.770		-.0128	
.950	-.1929	-.1850	-.0969

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (4) = 5.030 ALPHA (4) = 6.220 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1995	-.2918	.2712
.200	.2214		.0932
.410	.2194	.2115	.1319
.590	.2314	.2334	.1756
.770		.0297	
.950	-.1528	-.1449	-.0595

BETA (4) = 5.030 ALPHA (5) = 8.280 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1278	-.1883	.3037
.200	.2719		.0931
.410	.2659	.2599	.1793
.590	.2728	.2818	.2261
.770		.0792	
.950	-.1120	-.1050	-.0198

BETA (4) = 5.030 ALPHA (6) = 10.350 Q(PSF) = 42.905 PO/PSF = 2120.6 RUN NO = 113.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0625	-.0684	.3069
.200	.3208		.1487
.410	.3138	.3118	.2252
.590	.3208	.3278	.2750
.770		.1288	
.950	-.0694	-.0605	.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 571

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (5) = 10.060 ALPHA (1) = .030 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3637	-.3489	.0852
.200	.1526		-.0971
.410	.1526	.1357	.0217
.590	.1159	.1288	.0663
.770		-.1467	
.950	-.2795	-.2666	-.1724

BETA (5) = 10.060 ALPHA (2) = 2.090 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2677	-.2498	.0921
.200	.1963		-.0267
.410	.2003	.1854	.0654
.590	.1635	.1685	.1110
.770		-.1011	
.950	-.2498	-.2349	-.1437

BETA (5) = 10.060 ALPHA (3) = 4.150 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1608	-.1410	.0962
.200	.2394		.0257
.410	.2464	.2325	.1091
.590	.2085	.2145	.1548
.770		-.0506	
.950	-.2184	-.2015	-.1141

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 572

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE22)

BETA (5) = 10.060 ALPHA (4) = 6.240 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	-.0546	-.0178	.0972
.200	.2872		.0644
.410	.2971	.2842	.1567
.590	.2623	.2623	.1965
.770		.0000	
.950	-.1856	-.1657	-.0824

BETA (5) = 10.060 ALPHA (5) = 8.290 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0376	.1228	.1079
.200	.3265		.1030
.410	.3394	.3255	.1962
.590	.3056	.3086	.2430
.770		.0505	
.950	-.1476	-.1318	-.0456

BETA (5) = 10.060 ALPHA (6) = 10.370 Q(PSF) = 42.840 PO/PSF = 2120.7 RUN NO = 114.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 3280 .5640

X/CNL

.040	.1445	.2926	.1406
.200	.3711		.1465
.410	.3810	.3691	.2379
.590	.3582	.3572	.2886
.770		.1049	
.950	-.1069	-.0891	-.0059

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 573

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = 10.000
BDFLAP = .000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.040 ALPHA (1) = .110 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR OR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.3519 -.7771 -.7107
.200 -.0525 -.1041
.410 -.0614 -.0842 -.1110
.590 -.1100 -.1159 -.1278
.770 -.1259
.950 -.2983 -.2507 -.2091

BETA (1) = -10.040 ALPHA (2) = 2.170 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.2850 -.6452 -.6066
.200 .0118 -.0396
.410 .0009 -.0307 -.0533
.590 -.0683 -.0722 -.0851
.770 -.0821
.950 -.2652 -.2206 -.1791

BETA (1) = -10.040 ALPHA (3) = 4.240 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.2236 -.5254 -.4986
.200 .0791 .0138
.410 .0593 .0296 -.0089
.590 -.0188 -.6227 -.0366
.770 -.0376
.950 -.2335 -.1850 -.1464

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 574

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (1) = -10.040 ALPHA (4) = 6.300 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1446	-.4052	-.3903
.200	.1525		.0633
.410	.1198	.1030	.0495
.590	.0455	.0257	.0070
.770		.0088	
.950	-.1971	-.1525	-1099

BETA (1) = -10.040 ALPHA (5) = 8.370 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0752	-.2882	-.2901
.200	.2080		.0681
.410	.1921	.1762	.1485
.590	.1069	.1049	.0643
.770		.0603	
.950	-.1525	-.1129	-.0752

BETA (1) = -10.040 ALPHA (6) = 10.450 Q(PSF) = 42.903 PO/PSF = 2117.9 RUN NO = 135.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0158	-.1859	-.1987
.200	.2474		.1344
.410	.2415	.2504	.2008
.590	.1750	.1750	.1245
.770		.1225	
.950	-.1008	-.0732	-.0405

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 575

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (2) = -5.030 ALPHA (1) = .100 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4349	-.6856	-.5221
.200	.0336		-.1258
.410	-.0247	-.0337	-.0634
.590	-.0436	-.0614	-.0802
.770		-.0822	
.950	-.2556	-.2348	-.1843

BETA (2) = -5.030 ALPHA (2) = 2.160 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3570	-.5746	-.4322
.200	.0790		-.0682
.410	.0296	.0217	-.0029
.590	.0039	-.0109	-.0316
.770		-.0385	
.950	-.2156	-.1938	-.1404

BETA (2) = -5.030 ALPHA (3) = 4.260 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2768	-.4657	-.3312
.200	.1186		-.0059
.410	.0771	.0721	.0494
.590	.0543	.0405	.0207
.770		.0078	
.950	-.1790	-.1582	-.1008

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 576

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (2) = -5.030 ALPHA (4) = 6.290 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1941	-.3645	-.2327
.200	.1624		.0594
.410	.1287	.1287	.1118
.590	.1049	.0910	.0752
.770		.0554	
.950	-.1367	-.1159	-.0624

BETA (2) = -5.030 ALPHA (5) = 8.390 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1158	-.2702	-.1277
.200	.2139		.1236
.410	.1781	.1801	.1662
.590	.1543	.1504	.1296
.770		.1009	
.950	-.1009	-.0772	-.0178

BETA (2) = -5.030 ALPHA (6) = 10.460 Q(PSF) = 42.937 PO/PSF = 2117.8 RUN NO = 136.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0474	-.1786	-.0197
.200	.2677		.1915
.410	.2242	.2331	.2242
.590	.2053	.2053	.1836
.770		.1480	
.950	-.0592	-.0355	.0266

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 577

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (3) = -.010 ALPHA (1) = .090 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4368	-.7026	-.1324
.200	.0474		-.0998
.410	.0147	-.0237	-.0286
.590	.0197	-.0108	-.0415
.770		-.1018	
.950	-.2480	-.2460	-.1996

BETA (3) = -.010 ALPHA (2) = 2.160 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3522	-.5757	-.0049
.200	.0860		-.0287
.410	.0662	.0306	.0227
.590	.0741	.0504	.0088
.770		-.0593	
.950	-.2146	-.2077	-.1592

BETA (3) = -.010 ALPHA (3) = 4.220 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2677	-.4604	.1007
.200	.1313		.0385
.410	.1205	.0908	.0760
.590	.1254	.1086	.0651
.770		-.0158	
.950	-.1778	-.1660	-.1116

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 578

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (3) = -.010 ALPHA (4) = 6.300 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1921	-.3515	.2130
.200	.1852		.1049
.410	.1752	.1554	.1237
.590	.1802	.1693	.1217
.770		.0296	
.950	-.1376	-.1267	-.0624

BETA (3) = -.010 ALPHA (5) = 8.380 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1145	-.2538	.3006
.200	.2362		.1827
.410	.2283	.2134	.1738
.590	.2283	.2273	.1777
.770		.0849	
.950	-.0968	-.0849	-.0187

BETA (3) = -.010 ALPHA (6) = 10.450 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 137.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0465	-.1663	.3699
.200	.2795		.2428
.410	.2785	.2736	.2179
.590	.2795	.2855	.2338
.770		.1316	
.950	-.0574	-.0435	.0247

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 579

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

, (RFFE23)

BETA (4) = 5.030 ALPHA (1) = .110 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4101	-.6661	.1828
.200	.0652		.0029
.410	.0740	.0503	-.0099
.590	.0928	.0849	.0266
.770		-.1156	
.950	-.2589	-.2599	-.1799

BETA (4) = 5.030 ALPHA (2) = 2.160 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3302	-.5229	.2027
.200	.1215		.0474
.410	.1215	.1027	.0296
.590	.1383	.1344	.0780
.770		-.0642	
.950	-.2254	-.2244	-.1384

BETA (4) = 5.030 ALPHA (3) = 4.210 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2642	-.3987	.2317
.200	.1751		.0731
.410	.1721	.1592	.0821
.590	.1840	.1850	.1256
.770		-.0128	
.950	-.1919	-.1850	-.0979

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (4) = 5.030 ALPHA (4) = 6.310 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1971	-.2942	.2708
.200	.2260		.0911
.410	.2191	.2151	.1357
.590	.2300	.2350	.1773
.770		.0326	
.950	-.1496	-.1456	-.0574

BETA (4) = 5.040 ALPHA (5) = 8.380 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1286	-.1830	.3032
.200	.2754		.0949
.410	.2674	.2625	.1810
.590	.2783	.2853	.2297
.770		.0820	
.950	-.1088	-.1009	-.0168

BETA (4) = 5.040 ALPHA (6) = 10.440 Q(PSF) = 42.938 PO/PSF = 2117.8 RUN NO = 138.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0593	-.0672	.3090
.200	.3249		.1493
.410	.3169	.3130	.2276
.590	.3219	.3298	.2772
.770		.1315	
.950	-.0662	-.0603	.0246

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 581

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (5) = 10.060 ALPHA (1) = .120 Q(PSF) = 42.885 PO/PSF = 2117.9 - RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3603	-.3543	.0902
.200	.1538		-.0953
.410	.1567	.1389	.0237
.590	.1200	.1280	.0704
.770		-.1449	
.950	-.2799	-.2610	-.1717

BETA (5) = 10.060 ALPHA (2) = 2.180 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2675	-.2526	.0980
.200	.1992		-.0228
.410	.2022	.1873	.0653
.590	.1624	.1684	.1109
.770		-.1020	
.950	-.2497	-.2318	-.1397

BETA (5) = 10.060 ALPHA (3) = 4.240 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1513	-.1305	.1028
.200	.2434		.0286
.410	.2494	.2335	.1087
.590	.2137	.2147	.1572
.770		-.0524	
.950	-.2146	-.2007	-.1157

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 582

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE23)

BETA (5) = 10.060 ALPHA (4) = 6.320 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0584	-.0089	.1010
.200	.2867		.0683
.410	.2947	.2798	.1535
.590	.2619	.2629	.1982
.770		-.0010	
.950	-.14823	-.1704	-.0792

BETA (5) = 10.060 ALPHA (5) = 8.360 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0425	.1306	.1148
.200	.3293		.1089
.410	.3402	.3243	.1981
.590	.3074	.3094	.2458
.770		.0544	
.950	-.1465	-.1277	-.0475

BETA (5) = 10.060 ALPHA (6) = 10.450 Q(PSF) = 42.885 PO/PSF = 2117.9 RUN NO = 139.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1424	.2963	.1434
.200	.3727		.1513
.410	.3857	.3718	.2377
.590	.3598	.3598	.2903
.770		.1068	
.950	-.1039	-.0890	-.0079

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 583

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE24) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = 10.000
BDFLAP = -11.700 SPDBRK = 85.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.030 ALPHA (1) = 080 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3588 -.7917 -.7186
.200 -.0583 -.1117
.410 -.0662 -.0899 -.1166
.590 -.1196 -.1206 -.1334
.770 -.1334
.950 -.3044 -.2560 -.2115

BETA (1) = -10.030 ALPHA (2) = 2.140 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2948 -.6509 -.6163
.200 .0059 -.0435
.410 .0009 -.0356 -.0682
.590 -.0712 -.0781 -.0890
.770 -.0870
.950 -.2710 -.2265 -.1771

BETA (1) = -10.040 ALPHA (3) = 4.190 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2232 -.5294 -.5037
.200 .0730 .0098
.410 .0533 .0236 -.0138
.590 -.0247 -.0276 -.0424
.770 -.0415
.950 -.2370 -.1916 -.1442

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 584

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (1) = -10.030 ALPHA (4) = 6.280 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1453	-.4111	-.3983
.200	.1531		.0552
.410	.1057	.0948	.0622
.590	.0296	.0217	.0009
.770		.0029	
.950	-.1986	-.1591	-.1186

BETA (1) = -10.040 ALPHA (5) = 8.380 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0808	-.2898	-.2918
.200	.2051		.0637
.410	.1913	.1784	.1389
.590	.1034	.1074	.0561
.770		.0942	
.950	-.1607	-.1183	-.0719

BETA (1) = -10.040 ALPHA (6) = 10.420 Q(PSF) = 42.995 PO/PSF = 2125.0 RUN NO = 140.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0178	-.1907	-.2025
.200	.2492		.1284
.410	.2522	.2571	.1986
.590	.1699	.1649	.1155
.770		.1155	
.950	-.0998	-.0731	-.0395

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR.

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 585

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (2) = -5.020 ALPHA (1) = .080 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4395	-.6894	-.5363
.200	.0286		-.1323
.410	-.0286	-.0365	-.0662
.590	-.0484	-.0671	-.0859
.770		-.0879	
.950	-.2597	-.2370	-.1886

BETA (2) = -5.020 ALPHA (2) = 2.140 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3620	-.5856	-.4412
.200	.0702		-.0722
.410	.0247	.0158	-.0109
.590	-.0010	-.0188	-.0356
.770		-.0455	
.950	-.2206	-.1988	-.1484

BETA (2) = -5.030 ALPHA (3) = 4.200 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2809	-.4778	-.3453
.200	.1137		-.0168
.410	.0731	.0662	.0474
.590	.0494	.0365	.0167
.770		.0009	
.950	-.1810	-.1612	-.1078

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 586

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (2) = -5.030 ALPHA (4) = 6.260 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1985	-.3732	-.2429
.200	.1569		.0542
.410	.1263	.1214	.1036
.590	.0977	.0888	.0710
.770		.0493	
.950	-.1402	-.1195	-.0651

BETA (2) = -5.030 ALPHA (5) = 8.330 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1274	-.2727	-.1324
.200	.2075		.1165
.410	.1738	.1778	.1669
.590	.1541	.1471	.1274
.770		.0997	
.950	-.0998	-.0780	-.0187

BETA (2) = -5.030 ALPHA (6) = 10.420 Q(PSF) = 42.977 PO/PSF = 2124.8 RUN NO = 141.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0514	-.1799	-.0247
.200	.2662		.1849
.410	.2216	.2295	.2186
.590	.2007	.2057	.1809
.770		.1443	
.950	-.0593	-.0385	.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 587

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (3) = .010 ALPHA (1) = .070 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4447	-.7164	-.1373
.200	.0404		-.1028
.410	.0078	-.0306	-.0365
.590	.0157	-.0168	-.0494
.770		-.1107	
.950	-.2490	-.2490	-.2065

BETA (3) = .010 ALPHA (2) = 2.130 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3585	-.5826	-.0257
.200	.0809		-.0316
.410	.0612	.0266	.0128
.590	.0671	.0424	.0039
.770		-.0671	
.950	-.2172	-.2084	-.1669

BETA (3) = .000 ALPHA (3) = 4.180 Q(PSF) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2775	-.4652	.0967
.200	.1283		.0355
.410	.1165	.0859	.0661
.590	.1214	.1026	.0592
.770		-.0237	
.950	-.1787	-.1708	-.1145

DATE 20 OCT 76

TABULATED PRESSURE DATA -- OA163 (NAAL-751)

PAGE 588

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (3) = .010 ALPHA (4) = 6.280 Q(P5F) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1976	-.3596	.2095
.200	.1798		.1027
.410	.1718	.1511	.1185
.590	.1768	.1629	.1155
.770		.0256	
.950	-.1383	-.1284	-.0672

BETA (3) = .010 ALPHA (5) = 8.360 Q(P5F) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1184	-.2616	.3065
.200	.2341		.1796
.410	.2242	.2123	.1668
.590	.2262	.2252	.1747
.770		.0779	
.950	-.0967	-.0859	-.0227

BETA (3) = .000 ALPHA (6) = 10.420 Q(P5F) = 42.998 PO/PSF = 2124.8 RUN NO = 142.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0464	-.1720	.3704
.200	.2791		.2384
.410	.2761	.2722	.2126
.590	.2761	.2831	.2305
.770		.1294	
.950	-.0573	-.0464	.0246

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 589

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (4) = 5.060 ALPHA (1) = .080 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4167	-.6755	.1886
.200	.0621		.0000
.410	.0700	.0463	-.0178
.590	.0878	.0789	.0197
.770		-.1195	
.950	-.2597	-.2617	-.1827

BETA (4) = 5.050 ALPHA (2) = 2.120 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3407	-.5332	.1975
.200	.1214		.0355
.410	.1184	.0967	.0246
.590	.1342	.1293	.0720
.770		-.0711	
.950	-.2261	-.2251	-.1432

BETA (4) = 5.050 ALPHA (3) = 4.200 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2677	-.4060	.2313
.200	.1708		.0651
.410	.1698	.1550	.0770
.590	.1807	.1817	.1224
.770		-.0187	
.950	-.1906	-.1857	-.1017

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 590

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (4) = 5.050 ALPHA (4) = 6.280 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2035	-.2964	.2700
.200	.2224		.0770
.410	.2174	.2105	.1303
.590	.2264	.2323	.1738
.770		.0266	
.950	-.1511	-.1462	-.0602

BETA (4) = 5.050 ALPHA (5) = 8.350 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1316	-.1880	.2993
.200	.2734		.0821
.410	.2665	.2615	.1741
.590	.2754	.2814	.2248
.770		.0761	
.950	-.1128	-.1039	-.0247

BETA (4) = 5.050 ALPHA (6) = 10.460 Q(PSF) = 42.985 PO/PSF = 2124.8 RUN NO = 143.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0672	-.0652	.3048
.200	.3217		.1472
.410	.3137	.3117	.2245
.590	.3226	.3296	-.2760
.770		.1284	
.950	-.0682	-.0563	.0236

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 591

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (5) = 10.090 ALPHA (1) = .080 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3671	-.3563	.0870
.200	.1484		-.1039
.410	.1523	.1335	.0158
.590	.1167	.1246	.0623
.770		-.1514	
.950	-.2791	-.2672	-.1712

BETA (5) = 10.090 ALPHA (2) = 2.150 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2711	-.2572	.0959
.200	.1910		-.0366
.410	.1969	.1820	.0573
.590	.1612	.1681	.1058
.770		-.1058	
.950	-.2503	-.2335	-.1474

BETA (5) = 10.090 ALPHA (3) = 4.230 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1651	-.1384	.0958
.200	.2404		.0207
.410	.2493	.2305	.1047
.590	.2086	.2116	.1502
.770		-.0593	
.950	-.2184	-.2026	-.1176

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 592

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE24)

BETA (5) = 10.100 ALPHA (4) = 6.290 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0583	-.0217	.0958
.200	.2830		.0651
.410	.2919	.2800	.1472
.590	.2552	.2621	.1937
.770		-.0089	
.950	-.1838	-.1670	-.0850

BETA (5) = 10.100 ALPHA (5) = 8.360 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0404	.1282	.1085
.200	.3291		.1055
.410	.3381	.3232	.1905
.590	.3064	.3073	.2390
.770		.0483	
.950	-.1510	-.1302	-.0483

BETA (5) = 10.090 ALPHA (6) = 10.430 Q(PSF) = 42.970 PO/PSF = 2125.0 RUN NO = 144.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1492	.2959	.1373
.200	.3703		.1492
.410	.3842	.3683	.2354
.590	.3564	.3594	.2899
.770		.1027	
.950	-.1067	-.0869	-.0049

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 593

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = 15.000 SPOBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.040 ALPHA (1) = .040 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3580 -.7773 -.7160
.200 -.0544 -.1088
.410 -.0633 -.0850 -.1137
.590 -.1167 -.1216 -.1295
.770 -.1295
.950 -.3006 -.2571 -.2116

BETA (1) = -10.030 ALPHA (2) = 2.120 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2904 -.6571 -.6125
.200 .0128 -.0426
.410 .0029 -.0257 -.0604
.590 -.0674 -.0743 -.0842
.770 -.0842
.950 -.2676 -.2240 -.1764

BETA (1) = -10.040 ALPHA (3) = 4.160 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2226 -.5294 -.5007
.200 .0791 .0138
.410 .0563 .0296 -.0089
.590 -.0208 -.0257 -.0386
.770 -.0356
.950 -.2335 -.1880 -.1494

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 594

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (1) = -10.040 ALPHA (4) = 6.260 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1457	-.4084	-.3926
.200	.1546		.0634
.410	.1149	.0872	.0644
.590	.0435	.0267	.0049
.770		.0049	
.950	-.1982	-.1507	-.1199

BETA (1) = -10.030 ALPHA (5) = 8.300 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0801	-.2907	-.2878
.200	.2077		.0319
.410	.1899	.1700	.1463
.590	.1028	.1057	.0622
.770		.0583	
.950	-.1513	-.1127	-.0761

BETA (1) = -10.030 ALPHA (6) = 10.400 Q(PSF) = 42.923 PO/PSF = 2117.9 RUN NO = 129.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0158	-.1906	-.1975
.200	.2531		.1303
.410	.2551	.2531	.2045
.590	.1738	.1688	.1283
.770		.1135	
.950	-.1047	-.0741	-.0415

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 595

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (2) = -5.020 ALPHA (1) = .040 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4387	-.6853	-.5338
.200	.0346		-.1238
.410	-.0228	-.0317	-.0614
.590	-.0416	-.0624	-.0772
.770		-.0812	
.950	-.2565	-.2337	-.1842

BETA (2) = -5.020 ALPHA (2) = 2.090 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3595	-.5833	-.4348
.200	.0762		-.0713
.410	.0277	.0178	-.0059
.590	.0009	-.0158	-.0317
.770		-.0376	
.950	-.2189	-.1971	-.1475

BETA (2) = -5.020 ALPHA (3) = 4.150 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2788	-.4737	-.3362
.200	.1166		-.0069
.410	.0800	.0711	.0494
.590	.0513	.0375	.0207
.770		.0059	
.950	-.1809	-.1562	-.1058

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 596

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (2) = -5.020 ALPHA (4) = 6.200 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2028	-.3681	-.2385
.200	.1612		.0583
.410	.1276	.1207	.1078
.590	.1028	.0929	.0722
.770		.0514	
.950	-.1395	-.1187	-.0613

BETA (2) = -5.020 ALPHA (5) = 8.300 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1179	-.2694	-.1278
.200	.2131		.1228
.410	.1783	.1783	.1693
.590	.1554	.1475	.1297
.770		.1010	
.950	-.0990	-.0763	-.0168

BETA (2) = -5.030 ALPHA (6) = 10.360 Q(PSF) = 42.925 PO/PSF = 2117.8 RUN NO = 128.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0503	-.1846	-.0207
.200	.2649		.1856
.410	.2233	.2322	.2213
.590	.2025	.2034	.1846
.770		.1461	
.950	-.0602	-.0365	.0236

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 597

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (3) = .000 ALPHA (1) = .010 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4419	-.7119	-.1443
.200	.0444		-.0979
.410	.0128	-.0267	-.0306
.590	.0177	-.0138	-.0445
.770		-.1038	
.950	-.2521	-.2511	-.2037

BETA (3) = .000 ALPHA (2) = 2.100 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3535	-.5758	-.0197
.200	.0839		-.0257
.410	.0641	.0296	.0236
.590	.0710	.0483	.0098
.770		-.0612	
.950	-.2173	-.2084	-.1610

BETA (3) = .000 ALPHA (3) = 4.200 Q(PSF) = 42.953 PO/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2723	-.4574	.1029
.200	.1346		.0415
.410	.1197	.0900	.0752
.590	.1237	.1059	.0663
.770		-.0148	
.950	-.1782	-.1693	-.1168

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 598

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (3) = .000 ALPHA (4) = 6.220 Q(PSF) = 42.953 P0/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1907	-.3567	.2076
.200	.1808		.1066
.410	.1709	.1541	.1244
.590	.1749	.1630	.1195
.770		.0306	
.950	-.1383	-.1275	-.0672

BETA (3) = .000 ALPHA (5) = 8.280 Q(PSF) = 42.953 P0/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1197	-.2592	.3042
.200	.2337		.1791
.410	.2238	.2118	.1711
.590	.2267	.2248	.1761
.770		.0811	
.950	-.0979	-.0871	-.0237

BETA (3) = .000 ALPHA (6) = 10.370 Q(PSF) = 42.953 P0/PSF = 2117.8 RUN NO = 127.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0504	-.1691	.3715
.200	.2792		.2425
.410	.2752	.2722	.2157
.590	.2772	.2832	.2315
.770		.1305	
.950	-.0603	-.0465	.0227

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 599

OA163 ORB NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (4) = 5.020 ALPHA (1) = .030 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4181	-.6738	.1853
.200	.0624		.0039
.410	.0713	.0505	-.0079
.590	.0901	.0842	.0227
.770		-.1179	
.950	-.2626	-.2645	-.1823

BETA (4) = 5.020 ALPHA (2) = 2.100 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3342	-.5250	.2077
.200	.1215		.0474
.410	.1215	.1028	.0306
.590	.1354	.1334	.0761
.770		-.0672	
.950	-.2284	-.2244	-.1394

BETA (4) = 5.020 ALPHA (3) = 4.150 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2636	-.4023	.2350
.200	.1734		.0772
.410	.1704	.1565	.0802
.590	.1833	.1863	.1248
.770		-.0129	
.950	-.1913	-.1883	-.1991

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (4) = 5.020 ALPHA (4) = 6.240 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2005	-.2953	.2709
.200	.2223		.0918
.410	.2194	.2114	.1333
.590	.2293	.2352	.1748
.770		.0325	
.950	-.1540	-.1461	-.0602

BETA (4) = 5.020 ALPHA (5) = 8.300 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1308	-.1903	.3037
.200	.2719		.0951
.410	.2679	.2609	.1784
.590	.2769	.2838	.2261
.770		.0763	
.950	-.1130	-.1080	-.0188

BETA (4) = 5.020 ALPHA (6) = 10.360 Q(PSF) = 42.922 PO/PSF = 2117.7 RUN NO = 126.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0632	-.0721	.3088
.200	.3197		.1452
.410	.3118	.3098	.2265
.590	.3217	.3286	.2760
.770		.1294	
.950	-.0701	-.0613	.0227

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 601

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (5) = 10.070 ALPHA (1) = .030 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3579	-.3520	.0872
.200	.1516		-.0952
.410	.1536	.1358	.0198
.590	.1159	.1249	.0664
.770		-.1438	
.950	-.2786	-.2647	-.1705

BETA (5) = 10.080 ALPHA (2) = 2.080 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2655	-.2536	.0911
.200	.2002		-.0208
.410	.2012	.1843	.0663
.590	.1614	.1664	.1099
.770		-.1020	
.950	-.2517	-.2368	-.1427

BETA (5) = 10.080 ALPHA (3) = 4.150 Q(PSF) = 42.907 PO/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1633	-.1395	.0979
.200	.2407		.0276
.410	.2477	.2308	.1088
.590	.2079	.2129	.1504
.770		-.0564	
.950	-.2207	-.2059	-.1148

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 602

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE25)

BETA (5) = 10.070 ALPHA (4) = 6.220 Q(PSF) = 42.907 P0/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0613	-.0188	.0989
.200	.2844		.0652
.410	.2923	.2834	.1553
.590	.2556	.2596	.1970
.770		-.0020	
.950	-.1841	-.1672	-.0841

BETA (5) = 10.070 ALPHA (5) = 8.300 Q(PSF) = 42.907 P0/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0366	.1257	.1119
.200	.3274		.1059
.410	.3384	.3254	.1952
.590	.3055	.3105	.2419
.770		.0485	
.950	-.1476	-.1317	-.0446

BETA (5) = 10.070 ALPHA (6) = 10.380 Q(PSF) = 42.907 P0/PSF = 2117.8 RUN NO = 125.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1421	.2897	.1421
.200	.3679		.1480
.410	.3808	.3679	.2361
.590	.3560	.3570	.2897
.770		.1036	
.950	-.1056	-.0918	-.0069

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 603

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = .000
BDFLAP = 10.000 SPDBRK = 25.000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = .030 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3585 -.8003 -.7289
.200 -.0515 -.1258
.410 -.0753 -.0931 -.0990
.590 -.1119 -.1119 -.1228
.770 -.1208
.950 -.2961 -.2555 -.2070

BETA (1) = -10.080 ALPHA (2) = 2.090 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2943 -.6689 -.6223
.200 .0079 -.0565
.410 -.0178 -.0376 -.0456
.590 -.0624 -.0703 -.0793
.770 -.0793
.950 -.2666 -.2240 -.1744

BETA (1) = -10.080 ALPHA (3) = 4.160 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2286 -.5394 -.5068
.200 .0742 .0059
.410 .0504 .0207 .0078
.590 -.0119 -.0188 -.0356
.770 -.0326
.950 .2700 .1000 .11.05

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 604

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (1) = -10.080 ALPHA (4) = 6.220 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1564	-.4217	-.3969
.200	.1385		.0662
.410	.1049	.0791	.0563
.590	.0306	.0267	.0118
.770		.0108	
.950	-.1950	-.1544	-.1148

BETA (1) = -10.070 ALPHA (5) = 8.290 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0792	-.3059	-.2970
.200	.2060		.1118
.410	.1663	.1484	.1118
.590	.0861	.0861	.0633
.770		.0613	
.950	-.1534	-.1178	-.0831

BETA (1) = -10.080 ALPHA (6) = 10.360 Q(PSF) = 42.901 PO/PSF = 2125.6 RUN NO = 160.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0109	-.2008	-.1899
.200	.2555		.1493
.410	.2356	.2247	.1810
.590	.1642	.1523	.1206
.770		.1117	
.950	-.1019	-.0762	-.0445

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 605

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

'RFFE26)

BETA (2) = -5.050 ALPHA (1) = .030 Q(PSF) = 42.900 P0/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4436	-.6921	-.5198
.200	.0296		-.1257
.410	-.0277	-.0376	-.0633
.590	-.0386	-.0544	-.0732
.770		-.0841	
.950	-.2574	-.2376	-.1802

BETA (2) = -5.050 ALPHA (2) = 2.080 Q(PSF) = 42.900 P0/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3653	-.5881	-.4218
.200	.0712		-.0703
.410	.0207	.0108	-.0119
.590	.0108	-.0039	-.0227
.770		-.0396	
.950	-.2158	-.2000	-.1445

BETA (2) = -5.050 ALPHA (3) = 4.140 Q(PSF) = 42.900 P0/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2875	-.4848	-.3311
.200	.1129		-.0119
.410	.0723	.0624	.0426
.590	.0574	.0435	.0257
.770		.0069	
.950	-.1784	-.1616	-.1031

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 606

0A163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (2) = -5.050 ALPHA (4) = 6.220 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2051	-.3725	-.2328
.200	.1594		.0544
.410	.1208	.1139	.1010
.590	.1099	.0990	.0841
.770		.0524	
.950	-.1387	-.1199	-.0604

BETA (2) = -5.060 ALPHA (5) = 8.290 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1207	-.2770	-.1246
.200	.2128		.1236
.410	.1681	.1701	.1602
.590	.1572	.1513	.1335
.770		.0969	
.950	-.0999	-.0791	-.0178

BETA (2) = -5.050 ALPHA (6) = 10.350 Q(PSF) = 42.900 PO/PSF = 2125.5 RUN NO = 161.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0494	-.1829	-.0188
.200	.2653		.1879
.410	.2186	.2226	.2157
.590	.2117	.2087	.1869
.770		.1403	
.950	-.0583	-.0395	.0256

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 607

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (3) = -.020 ALPHA (1) = .020 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4412	-.7222	-.1128
.200	.0474		-.0959
.410	.0138	-.0257	-.0306
.590	.0247	-.0069	-.0386
.770		-.1078	
.950	-.2473	-.2483	-.1998

BETA (3) = -.020 ALPHA (2) = 2.070 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3566	-.5914	.0069
.200	.0871		-.0228
.410	.0673	.0306	.0227
.590	.0772	.0514	.0168
.770		-.0663	
.950	-.2149	-.2120	-.1605

BETA (3) = -.020 ALPHA (3) = 4.150 Q(PSF) = 42.920 P0/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2724	-.4734	.1138
.200	.1317		.0425
.410	.1189	.0901	.0762
.590	.1267	.1118	.0693
.770		-.0228	
.950	-.1763	-.1703	-.1149

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (3) = -.020 ALPHA (4) = 6.200 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1901	-.3633	.2189
.200	.1951		.1098
.410	.1732	.1524	.1276
.590	.1792	.1722	.1257
.770		.0187	
.950	-.1386	-.1267	-.0693

BETA (3) = -.020 ALPHA (5) = 8.290 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1147	-.2601	.3051
.200	.2366		.1620
.410	.2217	.2118	.1750
.590	.2286	.2296	.1780
.770		.0721	
.950	-.0979	-.0870	-.0237

BETA (3) = -.020 ALPHA (6) = 10.340 Q(PSF) = 42.920 PO/PSF = 2125.5 RUN NO = 162.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2930	.2850	.2453
.200	.2760		.2205
.410	.2770	-.3357	.2314
.590	-.0563	.1225	.0217
.770		-.0494	
.950	.1432	-.0435	-.1700

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 609

OA163 ORB , NOSE GEAR DOOR INNER SURFACE (RFFE26)

BETA (4) = 5.020 ALPHA (1) = .020 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4123	-.6714	.1770
.200	.0672		.0138
.410	.0711	.0504	.0088
.590	.0949	.0840	.0296
.770		-.1206	
.950	-.2551	-.2630	-.1780

BETA (4) = 5.020 ALPHA (2) = 2.080 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3325	-.5304	.1920
.200	.1226		.0544
.410	.1226	.1028	.0464
.590	.1385	.1345	.0781
.770		-.0712	
.950	-.2236	-.2256	-.1336

BETA (4) = 5.020 ALPHA (3) = 4.130 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2666	-.4014	.2211
.200	.1754		.0832
.410	.1714	.1516	.0852
.590	.1853	.1833	.1258
.770		-.0218	
.950	-.1893	-.1883	-.0941

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 610

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (4) = 5.020 ALPHA (4) = 6.200 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2009	-.2940	.2616
.200	.2218		.1098
.410	.2169	.2079	.1326
.590	.2278	.2318	.1761
.770		.0276	
.950	-.1524	-.1504	-.0534

BETA (4) = 5.020 ALPHA (5) = 8.260 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1278	-.1893	.2987
.200	.2738		.1179
.410	.2649	.2579	.1714
.590	.2778	.2828	.2291
.770		.0782	
.950	-.1110	-.1070	-.0099

BETA (4) = 5.020 ALPHA (6) = 10.350 Q(PSF) = 42.907 PO/PSF = 2125.5 RUN NO = 163.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0524	-.0682	.3101
.200	.3240		.1632
.410	.3151	.3091	.2188
.590	.3230	.3300	.2793
.770		.1276	
.950	-.0722	-.0653	.0296

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 611

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (5) = 10.070 ALPHA (1) = .000 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3516	-.3419	.0701
.200	.1511		-.0662
.410	.1461	.1303	.0128
.590	.1165	.1244	.0651
.770		-.1412	
.950	-.2736	-.2657	-.1649

BETA (5) = 10.070 ALPHA (2) = 2.070 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2493	-.2374	.0909
.200	.1979		-.0089
.410	.1929	.1800	.0613
.590	.1602	.1691	.1137
.770		-.0940	
.950	-.2413	-.2295	-.1276

BETA (5) = 10.060 ALPHA (3) = 4.140 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1546	-.1100	.1050
.200	.2450		.0406
.410	.2380	.2241	.1050
.590	.2042	.2142	.1565
.770		-.0486	
.950	-.2081	-.2012	-.0941

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 612

OA163 ORB

NOSE GEAR DOOR INNER SURFACE

(RFFE26)

BETA (5) = 10.060 ALPHA (4) = 6.230 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0476	.0118	.1050
.200	.2868		.0872
.410	.2878	.2759	.1546
.590	.2530	.2570	.2053
.770		.0029	
.950	-.1814	-.1675	-.0674

BETA (5) = 10.060 ALPHA (5) = 8.280 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0475	.1476	.1278
.200	.3285		.1218
.410	.3325	.3136	.1903
.590	.2987	.3037	.2460
.770		.0515	
.950	-.1457	-.1318	-.0347

BETA (5) = 10.060 ALPHA (6) = 10.360 Q(PSF) = 42.912 PO/PSF = 2125.6 RUN NO = 164.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1512	.3179	.1522
.200	.3744		.1690
.410	.3774	.3655	.2355
.590	.3486	.3536	.2921
.770		.1097	
.950	-.1058	-.0989	-.0020

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 613

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27) (20 OCT 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = -11.700 SPDBRK = .000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.090 ALPHA (1) = .000 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3818 -.8377 -.7607
.200 -.0710 -.1450
.410 -.0967 -.1144 -.5436
.590 -.1302 -.1332 -.1430
.770 -.1430
.950 -.3256 -.2822 -.2289

BETA (1) = -10.090 ALPHA (2) = 2.070 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3212 -.7005 -.6414
.200 -.0088 -.0739
.410 -.0246 -.0591 -.4334
.590 -.0837 -.0876 -.0976
.770 -.1014
.950 -.2916 -.2443 -.1950

BETA (1) = -10.090 ALPHA (3) = 4.150 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2476 -.5594 -.5337
.200 .0574 -.0118
.410 .0327 .0059 -.3324
.590 -.0315 -.0394 -.0503
.770 -.0532
.950 -.2546 -.2111 -.1637

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 614

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (1) = -10.090 ALPHA (4) = 5.190 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2128	-.4947	-.4780
.200	.0950		.0198
.410	.0633	.0326	-.2513
.590	-.0088	-.0137	-.0285
.770		-.0285	
.950	-.2355	-.1921	-.1458

BETA (1) = -10.090 ALPHA (5) = 6.240 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1753	-.4423	-.4167
.200	.1285		.0514
.410	.0910	.0682	-.1842
.590	.0158	.0129	-.0068
.770		-.0048	
.950	-.2147	-.1743	-.1290

BETA (1) = -10.090 ALPHA (6) = 8.310 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0933	-.3204	-.3106
.200	.1983		.1006
.410	.1529	.1312	-.1051
.590	.0770	.0671	.0434
.770		.0424	
.950	-.1710	-.1327	-.1002

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 615

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (1) = -10.090 ALPHA (7) = 10.420 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0216	-.2091	-.2022
.200	.2473		.1370
.410	.2355	.2158	-.0422
.590	.1399	.1517	.1035
.770		.1025	
.950	-.1158	-.0913	-.0638

BETA (1) = -10.090 ALPHA (8) = 15.670 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1715	.0759	.0345
.200	.3637		.3085
.410	.3913	.3883	.0493
.590	.3036	.3006	.2553
.770		.2533	
.950	.0079	.0000	.0493

BETA (1) = -10.090 ALPHA (9) = 20.910 Q(PSF) = 43.158 PO/PSF = 2129.0 RUN NO = 165.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3065	.2227	.2257
.200	.4376		.4435
.410	.4918	.5076	.1606
.590	.4671	.4750	.4346
.770		.3932	
.950	.0946	.0769	.1163

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 616

OA163 CRB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (2) = -5.060 ALPHA (1) = .000 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4681	-.7134	-.5400
.200	.0119	-.1468	
.410	-.0473	-.0561	.1058
.590	-.0581	-.0729	-.0906
.770		-.1044	
.950	-.2798	-.2591	-.2049

BETA (2) = -5.060 ALPHA (2) = 2.080 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3826	-.6118	-.4426
.200	.0543		-.0895
.410	.0040	-.0058	.0780
.590	-.0048	-.0206	-.0334
.770		.0550	
.950	-.2360	-.2183	-.1623

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3049	-.5025	-.3412
.200	.0957		-.0226
.410	.0563	.0484	.0711
.590	.0434	.0326	.0158
.770		-.0098	
.950	-.1967	-.1770	-.1209

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 617

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (2) = -5.060 ALPHA (4) = 5.200 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2640	-.4463	-.2896
.200	.1216		.0119
.410	.0850	.0791	.0712
.590	.0722	.0613	.0435
.770		.0148	
.950	-.1753	-.1556	-.0985

BETA (2) = -5.060 ALPHA (5) = 6.250 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2189	-.3907	-.2336
.200	.1438		.0453
.410	.1113	.1034	.0759
.590	.0975	.0877	.0739
.770		.0384	
.950	-.1531	-.1344	-.0736

BETA (2) = -5.060 ALPHA (6) = 8.310 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1387	-.2961	-.1239
.200	.2024		.1126
.410	.1600	.1590	.0958
.590	.1501	.1432	.1244
.770		.0849	
.950	-.1141	-.0924	-.0285

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 618

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (2) = -5.070 ALPHA (7) = 10.410 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0592	-.1944	-.0177
.200	.2595		.1803
.410	.2140	.2170	.1268
.590	.2021	.2021	.1773
.770		.1318	
.950	-.0720	-.0483	.0139

BETA (2) = -5.070 ALPHA (8) = 15.670 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1144	.0217	.2959
.200	.3541		.3472
.410	.3314	.3689	.1825
.590	.3314	.3669	.3265
.770		.2436	
.950	.0375	.0661	.1332

BETA (2) = -5.070 ALPHA (9) = 20.940 Q(PSF) = 43.179 PO/PSF = 2128.9 RUN NO = 166.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2508	.2272	.5577
.200	.4249		.4741
.410	.4279	.5144	.2577
.590	.4554	.5174	.4741
.770		.3600	
.950	.1446	.1889	.2538

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DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 619

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (3) = -2.030 ALPHA (1) = .000 Q(PSF) = 43.188 P0/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4712	-.7393	-.3194
.200	.0257		-.1271
.410	-.0157	-.0463	.1880
.590	-.0157	-.0473	-.0680
.770		-.1123	
.950	-.2740	-.2691	-.2178

BETA (3) = -2.030 ALPHA (2) = 2.090 Q(PSF) = 43.188 P0/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3851	-.6255	-.1989
.200	.0582		-.0500
.410	.0395	.0030	.1483
.590	.0376	.0079	-.0118
.770		-.0699	
.950	-.2334	-.2265	-.1733

BETA (3) = -2.030 ALPHA (3) = 4.140 Q(PSF) = 43.188 P0/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2980	-.5115	-.0737
.200	.1165		.0010
.410	.0898	.0622	.1333
.590	.0898	.0691	.0405
.770		-.0255	
.950	-.1947	-.1810	-.1298

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 620

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (3) = -2.030 ALPHA (4) = 5.200 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2554	-.4538	-.0078
.200	.1420		.0434
.410	.1173	.0907	.1232
.590	.1173	.1016	.0670
.770		-.0009	
.950	-.1719	-.1562	-.1041

BETA (3) = -2.030 ALPHA (5) = 6.230 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2144	-.3963	.0523
.200	.1698		.0770
.410	.1451	.1204	.1264
.590	.1451	.1333	.0967
.770		.0207	
.950	-.1514	-.1357	-.0816

BETA (3) = -2.030 ALPHA (6) = 8.320 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1336	-.2841	.1736
.200	.2200		.1500
.410	.1993	.1825	.1421
.590	.2023	.1934	.1509
.770		.0701	
.950	-.1101	-.0924	-.0314

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 621

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (3) = -2.030 ALPHA (7) = 10.410 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0590	-.1860	.2905
.200	.2697		.2193
.410	.2519	.2440	.1709
.590	.2549	.2579	.2144
.770		.1215	
.950	-.0689	-.0521	.0148

BETA (3) = -2.030 ALPHA (8) = 15.660 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1037	.0385	.4897
.200	.3751		.3455
.410	.3911	.3979	.2211
.590	.3781	.3988	.3584
.770		.2330	
.950	.0365	.0602	.1402

BETA (3) = -2.040 ALPHA (9) = 20.930 Q(PSF) = 43.188 PO/PSF = 2128.9 RUN NO = 167.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2302	.2489	.5490
.200	.4703		.4182
.410	.4772	.5195	.2794
.590	.4910	.5234	.4861
.770		.3621	
.950	.1427	.1791	.2578

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 622

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (4) = -.030 ALPHA (1) = -.020 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4630	-.7477	-.1132
.200	.0307		-.1093
.410	-.0009	-.0413	.1958
.590	.0099	-.0216	-.0532
.770		-.1290	
.950	-.2699	-.2709	-.2226

BETA (4) = -.030 ALPHA (2) = 2.070 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3713	-.6067	-.0058
.200	.0732		-.0325
.410	.0524	.0178	.1582
.590	.0623	.0376	.0030
.770		-.0817	
.950	-.2314	-.2295	-.1773

BETA (4) = -.030 ALPHA (3) = 4.150 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2839	-.4814	.1173
.200	.1223		.0375
.410	.1104	.0809	.1450
.590	.1203	.1026	.0602
.770		-.0393	
.950	-.1925	-.1856	-.1267

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 623

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (4) = -.030 ALPHA (4) = 5.220 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2417	-.4215	.1736
.200	.1479		.0680
.410	.1400	.1124	.1371
.590	.1460	.1321	.0897
.770		-.0137	
.950	-.1719	-.1631	-.1031

BETA (4) = -.030 ALPHA (5) = 6.230 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2016	-.3698	.2271
.200	.1757		.1076
.410	.1668	.1431	.1422
.590	.1728	.1649	.1175
.770		.0089	
.950	-.1514	-.1406	-.0767

BETA (4) = -.030 ALPHA (6) = 8.310 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1230	-.2696	.3131
.200	.2311		.1807
.410	.2202	.2064	.1551
.590	.2262	.2252	.1748
.770		.0622	
.950	-.1112	-.0984	-.0344

DATE 20 OCT 76

TABULATED PRESSURE DATA ~ OA163 (NAAL-751)

PAGE 624

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (4) = -.030 ALPHA (7) = 10.410 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0511	-.1732	.3713
.200	.2795		.2410
.410	.2755	.2696	.1857
.590	.2795	.2844	.2331
.770		.1136	
.950	-.0649	-.0570	.0158

BETA (4) = -.030 ALPHA (8) = 15.650 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0859	.0434	.4876
.200	.3968		.2912
.410	.4037	.4096	.2290
.590	.4027	.4115	.3731
.770		.2369	
.950	.0444	.0592	.1402

BETA (4) = -.040 ALPHA (9) = 20.950 Q(PSF) = 43.194 PO/PSF = 2128.9 RUN NO = 168.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2606	.2990	.4691
.200	.4966		.4435
.410	.5104	.5291	.2931
.590	.5212	.5340	.4986
.770		.3678	
.950	.1564	.1829	.2704

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 625

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (5) = 1.990 ALPHA (1) = .000 Q(PSF) = 43.192 P0/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4531	-.7352	.0612
.200	.0296		-.0727
.410	.0168	-.0226	.2170
.590	.0395	.0138	-.0294
.770		-.1327	
.950	-.2663	-.2732	-.2211

BETA (5) = 1.990 ALPHA (2) = 2.100 Q(PSF) = 43.192 P0/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3604	-.6040	.1607
.200	.0749		-.0019
.410	.0729	.0434	.1804
.590	.0897	.0759	.0237
.770		-.0854	
.950	-.2308	-.2318	-.1689

BETA (5) = 1.990 ALPHA (3) = 4.150 Q(PSF) = 43.192 P0/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2775	-.4754	.2371
.200	.1274		.0751
.410	.1274	.1037	.1719
.590	.1432	.1324	.0790
.770		-.0413	
.950	-.1909	-.1919	-.1181

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (5) = 1.990 ALPHA (4) = 5.190 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2345	-.4122	.2551
.200	.1606		.1044
.410	.1517	.1340	.1665
.590	.1704	.1625	.1084
.770		-.0166	
.950	-.1707	-.1668	-.0932

BETA (5) = 1.990 ALPHA (5) = 6.270 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1896	-.3528	.2870
.200	.1884		.1381
.410	.1844	.1657	.1696
.590	.1963	.1894	.1410
.770		.0118	
.950	-.1493	-.1464	-.0697

BETA (5) = 1.990 ALPHA (6) = 8.320 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1232	-.2514	.3315
.200	.2434		.1742
.410	.2375	.2276	.1801
.590	.2484	.2504	.1969
.770		.0643	
.950	-.1094	-.1045	-.0256

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 627

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (5) = 1.990 ALPHA (7) = 10.400 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0601	-.1587	.3791
.200	.2960		.2029
.410	.2871	.2851	.1940
.590	.2999	.3019	.2534
.770		.1099	
.950	-.0690	-.0611	.0198

BETA (5) = 1.990 ALPHA (8) = 15.670 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0910	.1059	.4126
.200	.4155		.3057
.410	.4116	.4146	.2295
.590	.4225	.4264	.3859
.770		.2444	
.950	.0445	.0564	.1375

BETA (5) = 1.990 ALPHA (9) = 20.920 Q(PSF) = 43.192 PO/PSF = 2128.9 RUN NO = 169.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3253	.3558	.4079
.200	.5209		.4325
.410	.5288	.5406	.2870
.590	.5337	.5435	.5052
.770		.3794	
.950	.1622	.1818	.2654

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (6) = 5.020 ALPHA (1) = .000 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4297	-.6953	.1678
.200	.0494		-.0029
.410	.0582	.0365	.2270
.590	.0780	.0711	.0118
.770		-.1406	
.950	-.2783	-.2852	-.1967

BETA (6) = 5.010 ALPHA (2) = 2.060 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3481	-.5468	.1935
.200	.1145		.0395
.410	.1115	.0888	.1974
.590	.1264	.1234	.0671
.770		-.0885	
.950	-.2439	-.2439	-.1524

BETA (6) = 5.010 ALPHA (3) = 4.160 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2766	-.4090	.2205
.200	.1664		.0788
.410	.1615	.1477	.1811
.590	.1762	.1752	.1211
.770		-.0323	
.950	-.2020	-.2010	-.1069

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 629

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (6) = 5.010 ALPHA (4) = 5.210 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2461	-.3520	.2451
.200	.1919		.0866
.410	.1880	.1752	.1683
.590	.1968	.2008	.1447
.770		-.0058	
.950	-.1853	-.1824	-.0863

BETA (6) = 5.020 ALPHA (5) = 6.250 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2092	-.2976	.2642
.200	.2189		.0946
.410	.2110	.2041	.1666
.590	.2248	.2297	.1735
.770		.0177	
.950	-.1660	-.1630	-.0638

BETA (6) = 5.010 ALPHA (6) = 8.320 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1330	-.1892	.2918
.200	.2700		.1068
.410	.2631	.2581	.1632
.590	.2740	.2789	.2265
.770		.0682	
.950	-.1231	-.1222	-.0216

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 630

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (6) = 5.010 ALPHA (7) = 10.410 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0551	-.0620	.2967
.200	.3204		.1662
.410	.3135	.3115	.1711
.590	.3195	.3284	.2779
.770		.1187	
.950	-.0818	-.0768	.0178

BETA (6) = 5.010 ALPHA (8) = 15.660 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1670	.2175	.2847
.200	.4428		.2886
.410	.4329	.4329	.2056
.590	.4369	.4468	.3983
.770		.2491	
.950	.0237	.0415	.1325

BETA (6) = 5.010 ALPHA (9) = 20.940 Q(PSF) = 43.203 PO/PSF = 2128.9 RUN NO = 170.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4296	.5704	.4020
.200	.5537		.4394
.410	.5488	.5507	.2631
.590	.5547	.5586	.5123
.770		.3852	
.950	.1399	.1734	.2650

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 631

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (7) = 10.070 ALPHA (1) = .010 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3616	-.3626	.0710
.200	.1420		-.0766
.410	.1361	.1203	.1963
.590	.1036	.1085	.0552
.770		-.1602	
.950	-.2919	-.2879	-.1847

BETA (7) = 10.070 ALPHA (2) = 2.080 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2592	-.2454	.0811
.200	.1910		-.0147
.410	.1850	.1731	.1642
.590	.1504	.1563	.1019
.770		-.1114	
.950	-.2622	-.2513	-.1478

BETA (7) = 10.070 ALPHA (3) = 4.170 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1516	-.1152	.0870
.200	.2392		.0366
.410	.2333	.2204	.1552
.590	.1967	.2046	.1502
.770		-.0630	
.950	-.2304	-.2176	-.1152

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 632

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (7) = 10.070 ALPHA (4) = 5.230 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0936	-.0532	.0860
.200	.2631		.0613
.410	.2611	.2462	.1454
.590	.2186	.2324	.1731
.770		-.0384	
.950	-.2138	-.2010	-.0995

BETA (7) = 10.070 ALPHA (5) = 6.250 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0403	.0207	.0908
.200	.2834		.0800
.410	.2844	.2686	.1402
.590	.2459	.2498	.1945
.770		-.0078	
.950	-.1957	-.1829	-.0855

BETA (7) = 10.070 ALPHA (6) = 8.330 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0592	.2083	.1155
.200	.3277		.1155
.410	.3336	.3188	.1461
.590	.2971	.2991	.2408
.770		.0464	
.950	-.1583	-.1494	-.0531

C-8

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 633

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE27)

BETA (7) = 10.070 ALPHA (7) = 10.410 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1673	.3583	.1425
.200	.3771		.1702
.410	.3781	.3662	.1623
.590	.3494	.3484	.2900
.770		.0970	
.950	-.1203	-.1124	-.0167

BETA (7) = 10.070 ALPHA (8) = 15.690 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4319	.6810	.2342
.200	.4883		.3153
.410	.4912	.4784	.2016
.590	.4714	.4675	.4013
.770		.2402	
.950	-.0285	-.0088	.0850

BETA (7) = 10.070 ALPHA (9) = 20.930 Q(PSF) = 43.168 PO/PSF = 2129.0 RUN NO = 171.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.6672	.7418	.3095
.200	.5944		.4304
.410	.5935	.5768	.2545
.590	.5817	.5758	.5129
.770		.3616	
.950	.0658	.0845	.1877

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE28) (20 OCT 76 .)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
 BDFLAP = -11.700 SPDBRK = 85.000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = -.010 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3853 -.8317 -.7609
 .200 -.0757 -.1484
 .410 -.0963 -.1209 -.0079
 .590 -.1376 -.1396 -.1494
 .770 -.1504
 .950 -.3303 -.2860 -.2339

BETA (1) = -10.080 ALPHA (2) = 2.060 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3172 -.7012 -.6491
 .200 -.0117 -.0766
 .410 -.0353 -.0648 .0010
 .590 -.0893 -.0942 -.1001
 .770 -.1031
 .950 -.2946 -.2484 -.1983

BETA (1) = -10.080 ALPHA (3) = 4.150 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2486 -.5677 -.5373
 .200 .0531 -.0127
 .410 .0305 -.0019 .0088
 .590 -.0381 -.0460 -.0538
 .770 -.0567
 .950 -.2554 -.2163 -.1654

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 635

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (1) = -10.080 ALPHA (4) = 6.230 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1812	-.4389	-.4173
.200	.1209		.0443
.410	.0855	.0619	.0236
.590	.0138	.0059	-.0058
.770		-.0087	
.950	-.2175	-.1753	-.1293

BETA (1) = -10.080 ALPHA (5) = 8.340 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0989	-.3292	-.3096
.200	.1908		.0974
.410	.1446	.1239	.0521
.590	.0659	.0600	.0413
.770		.0413	
.950	-.1763	-.1352	-.0970

BETA (1) = -10.080 ALPHA (6) = 10.430 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0245	-.2059	-.2020
.200	.2500		.1339
.410	.2215	.2215	.0738
.590	.1339	.1408	.0945
.770		.0955	
.950	-.1186	-.0912	-.0657

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (1) = -10.080 ALPHA (7) = 15.630 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1559	.0493	.0405
.200	.3483		.3049
.410	.3848	.3858	.1362
.590	.3010	.3010	.2506
.770		.2546	
.950	.0030	-.0029	.0434

BETA (1) = -10.090 ALPHA (8) = 20.920 Q(PSF) = 43.316 PO/PSF = 2129.3 RUN NO = 172.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2933	.2913	.2285
.200	.4384		.4394
.410	.4875	.5091	.2168
.590	.4659	.4767	.4090
.770		.3645	
.950	.0922	.0795	.1187

BETA (2) = -5.050 ALPHA (1) = -0.030 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4730	-.7203	-.5427
.200	.0059		-.1511
.410	-.0520	-.0657	.1409
.590	-.0618	-.0775	-.0971
.770		-.1079	
.950	-.2797	-.2640	-.2100

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 637

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE2B)

BETA (2) = -5.050 ALPHA (2) = 2.070 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3910	-.6154	-.4410
.200	.0502		-.0931
.410	.0000	-.0097	.1033
.590	-.0058	-.0235	-.0421
.770		-.0597	
.950	-.2391	-.2224	-.1666

BETA (2) = -5.060 ALPHA (3) = 4.150 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3093	-.5041	-.3377
.200	.0923		-.0303
.410	.0540	.0452	.0894
.590	.0413	.0275	.0079
.770		-.0166	
.950	-.1977	-.1791	-.1233

BETA (2) = -5.060 ALPHA (4) = 6.260 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2217	-.3986	-.2393
.200	.1422		.0402
.410	.1049	.1010	.0892
.590	.0951	.0863	.0677
.770		.0333	
.950	-.1553	-.1338	-.0762

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 638

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (2) = -5.050 ALPHA (5) = 8.310 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1392	-.2970	-.1245
.200	.2017		.1082
.410	.1555	.1555	.1004
.590	.1476	.1397	.1220
.770		.0807	
.950	-.1156	-.0931	-.0323

BETA (2) = -5.060 ALPHA (6) = 10.450 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0609	-.1935	-.0078
.200	.2573		.1755
.410	.2100	.2159	.1212
.590	.2011	.2041	.1804
.770		.1282	
.950	-.0726	-.0481	.0108

BETA (2) = -5.060 ALPHA (7) = 15.700 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1122	.0246	.2991
.200	.3493		.3434
.410	.3316	.3680	.1702
.590	.3267	.3611	.3277
.770		.2421	
.950	.0384	.0679	.1299

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 639

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (2) = -5.060 ALPHA (8) = 20.910 Q(PSF) = 43.334 PO/PSF = 2129.1 RUN NO = 173.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2482	.2206	.5585
.200	.4245		.4757
.410	.4265	.5181	.2384
.590	.4531	.5082	.4718
.770		.3605	
.950	.1438	.1862	.2531

BETA (3) = -2.020 ALPHA (1) = -.020 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4743	-.7434	-.3211
.200	.0207		-.1325
.410	-.0196	-.0540	.1656
.590	-.0206	-.0530	-.0736
.770		-.1198	
.950	-.2750	-.2681	-.2209

BETA (3) = -2.010 ALPHA (2) = 2.080 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3894	-.6294	-.2016
.200	.0642		-.0678
.410	.0336	.0010	.1273
.590	.0336	.0040	-.0206
.770		-.0767	
.950	-.2360	-.2262	-.1760

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 640

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (3) = -2.020 ALPHA (3) = 4.130 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3014	-.5154	-.0765
.200	.1104		-.0019
.410	.0887	.0591	.1114
.590	.0857	.0650	.0345
.770		-.0324	
.950	-.1953	-.1816	-.1305

BETA (3) = -2.020 ALPHA (4) = 5.180 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2595	-.4580	-.0098
.200	.1391		.0326
.410	.1144	.0868	.1056
.590	.1144	.0947	.0631
.770		-.0058	
.950	-.1730	-.1582	-.1071

BETA (3) = -2.010 ALPHA (5) = 6.230 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2199	-.4016	.0522
.200	.1636		.0710
.410	.1419	.1173	.1035
.590	.1409	.1281	.0916
.770		.0168	
.950	-.1531	-.1374	-.0824

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 641

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE2B)

BETA (3) = -2.010 ALPHA (6) = 8.310 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1358	-.2850	.1618
.200	.2210		.1460
.410	.1953	.1776	.1203
.590	.1983	.1894	.1470
.770		.0690	
.950	-.1081	-.0933	-.0344

BETA (3) = -2.010 ALPHA (7) = 10.380 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0600	-.1869	.2825
.200	.2637		.2173
.410	.2499	.2390	.1462
.590	.2499	.2499	.2074
.770		.1156	
.950	-.0679	-.0521	.0138

BETA (3) = -2.010 ALPHA (8) = 15.690 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1024	.0404	.4874
.200	.3712		.3416
.410	.3800	.3958	.2058
.590	.3732	.3968	.3564
.770		.2333	
.950	.0364	.0630	.1369

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (3) = -2.020 ALPHA (9) = 20.950 Q(PSF) = 43.248 PO/PSF = 2129.1 RUN NO = 174.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2309	.2476	.5503
.200	.4707		.4186
.410	.4766	.5208	.2683
.590	.4923	.5228	.4913
.770		.3616	
.950	.1464	.1798	.2614

BETA (4) = -.010 ALPHA (1) = -.020 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4618	-.7526	-.1208
.200	.0256		-.1130
.410	-.0038	-.0452	.1765
.590	.0089	-.0255	-.0579
.770		-.1316	
.950	-.2721	-.2712	-.2260

BETA (4) = -.010 ALPHA (2) = 2.070 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3776	-.6136	-.0029
.200	.0691		-.0344
.410	.0484	.0138	.1431
.590	.0602	.0375	-.0909
.770		-.0865	
.950	-.2311	-.2291	-.1770

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 643

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (4) = -.010 ALPHA (3) = 4.140 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2896	-.4900	.1084
.200	.1173		.0286
.410	.1055	.0769	.1311
.590	.1153	.0986	.0522
.770		-.0422	
.950	-.1934	-.1865	-.1306

BETA (4) = -.010 ALPHA (4) = 5.190 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2466	-.4264	.1657
.200	.1469		.0651
.410	.1351	.1104	.1233
.590	.1430	.1282	.0838
.770		-.0196	
.950	-.1739	-.1690	-.1021

BETA (4) = -.010 ALPHA (5) = 6.240 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2066	-.3759	.2232
.200	.1729		.1027
.410	.1640	.1422	.1304
.590	.1709	.1610	.1126
.770		.0049	
.950	-.1525	-.1417	-.0807

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 644

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (4) = -.010 ALPHA (6) = 8.310 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1257	-.2700	-.3144
.200	.2296		.1744
.410	.2188	.2060	.1429
.590	.2237	.2198	.1675
.770		.0591	
.950	-.1090	-.1001	-.0333

BETA (4) = -.010 ALPHA (7) = 10.400 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0521	-.1761	.3773
.200	.2766		.2351
.410	.2746	.2706	.1589
.590	.2776	.2815	.2301
.770		.1126	
.950	-.0659	-.0561	.0109

BETA (4) = -.010 ALPHA (8) = 15.640 Q(PSF) = 43.250 PO/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0874	.0422	.4850
.200	.3927		.2857
.410	.3976	.4054	.2042
.590	.3986	.4094	.3652
.770		.2317	
.950	.0403	.0618	.1374

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 645

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (4) = -.010 ALPHA (9) = 20.930 Q(PSF) = 43.250 P0/PSF = 2129.1 RUN NO = 175.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2627	.2971	.4595
.200	.4998		.4398
.410	.5047	.5303	.2666
.590	.5155	.5313	.4959
.770		.3640	
.950	.1535	.1830	.2647

BETA (5) = 2.000 ALPHA (1) = .000 Q(PSF) = 43.271 P0/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4545	-.7389	.0642
.200	.0286		-.0757
.410	.0148	-.0226	.1916
.590	.0375	.0109	-.0334
.770		-.1397	
.950	-.2666	-.2715	-.2223

BETA (5) = 2.000 ALPHA (2) = 2.070 Q(PSF) = 43.271 P0/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3664	-.6110	.1508
.200	.0730		-.0098
.410	.0680	.0375	.1548
.590	.0877	.0690	.0168
.770		-.0943	
.950	-.2308	-.2308	-.1709

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 646

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (5) = 2.000 ALPHA (3) = 4.160 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2794	-.4785	.2283
.200	.1260		.0610
.410	.1260	.1004	.1447
.590	.1388	.1309	.0768
.770		-.0470	
.950	-.1931	-.1882	-.1206

BETA (5) = 2.000 ALPHA (4) = 5.180 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2408	-.4206	.2555
.200	.1568		.1046
.410	.1539	.1312	.1440
.590	.1677	.1588	.1065
.770		-.0176	
.950	-.1729	-.1700	-.0963

BETA (5) = 2.000 ALPHA (5) = 6.230 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1973	-.3653	.2750
.200	.1873		.1311
.410	.1764	.1577	.1449
.590	.1912	.1882	.1331
.770		.0069	
.950	-.1522	-.1473	-.0756

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 647

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (5) = 2.000 ALPHA (6) = 8.330 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1250	-.2560	.3281
.200	.2402		.1690
.410	.2313	.2194	.1562
.590	.2421	.2461	.1917
.770		.0593	
.950	-.1103	-.1063	-.0285

BETA (5) = 2.000 ALPHA (7) = 10.420 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0638	-.1640	.3785
.200	.2927		.1942
.410	.2858	.2849	.1745
.590	.2937	.3026	.2474
.770		.1074	
.950	-.0687	-.0608	.0177

BETA (5) = 2.000 ALPHA (8) = 15.680 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0932	.1040	.4063
.200	.4122		.3043
.410	.4063	.4122	.2081
.590	.4152	.4240	.3818
.770		.2454	
.950	.0452	.0579	.1384

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (5) = 2.000 ALPHA (9) = 20.960 Q(PSF) = 43.271 PO/PSF = 2129.1 RUN NO = 176.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3288	.3554	.3995
.200	.5183		.4290
.410	.5232	.5291	.2621
.590	.5320	.5389	.5016
.770		.3720	
.950	.1620	.1816	.2660

BETA (6) = 5.030 ALPHA (1) = .000 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4380	-.7006	.1731
.200	.0492		-.0078
.410	.0531	.0315	.1967
.590	.0728	.0669	.0079
.770		-.1440	
.950	-.2783	-.2841	-.2018

BETA (6) = 5.030 ALPHA (2) = 2.110 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3484	-.5393	.1906
.200	.1061		.0314
.410	.1061	.0884	.1729
.590	.1238	.1189	.0648
.770		-.0910	
.950	-.2427	-.2417	-.1527

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 649

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE (RFFE28)

BETA (6) = 5.030 ALPHA (3) = 4.110 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2812	-.4204	.2203
.200	.1623		.0669
.410	.1593	.1446	.1603
.590	.1721	.1721	.1141
.770		-.0333	
.950	-.2058	-.2038	-.1127

BETA (6) = 5.030 ALPHA (4) = 5.190 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2525	-.3655	.2416
.200	.1893		.0799
.410	.1815	.1706	.1519
.590	.1992	.1992	.1391
.770		-.0137	
.950	-.1876	-.1847	-.0904

BETA (6) = 5.030 ALPHA (5) = 6.230 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2154	-.2976	.2633
.200	.2152		.0884
.410	.2083	.1975	.1445
.590	.2221	.2260	.1551
.770		.0108	
.950	-.1654	-.1635	-.0656

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (6) = 5.030 ALPHA (6) = 8.330 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION: (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1349	-.1891	.2897
.200	.2679		.1028
.410	.2590	.2531	.1443
.590	.2719	.2758	.2224
.770		.0633	
.950	-.1270	-.1211	-.0226

BETA (6) = 5.030 ALPHA (7) = 10.380 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION: (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0619	-.0669	.2952
.200	.3189		.1599
.410	.3120	.3041	.1550
.590	.3209	.3268	.2764
.770		.1155	
.950	-.0796	-.0737	.0158

BETA (6) = 5.030 ALPHA (8) = 15.630 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION: (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1647	.2089	.2863
.200	.4403		.2942
.410	.4305	.4285	.1893
.590	.4383	.4432	.3932
.770		.2461	
.950	.0255	.0451	.1285

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 651

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (6) = 5.030 ALPHA (9) = 20.910 Q(PSF) = 43.320 PO/PSF = 2129.2 RUN NO = 177.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4182	.5674	.4035
.200	.5537		.4418
.410	.5419	.5478	.2533
.590	.5498	.5615	.5134
.770		.3809	
.950	.1394	.1747	.2660

BETA (7) = 10.080 ALPHA (1) = -.010 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3750	-.3671	.0711
.200	.1373		-.0646
.410	.1324	.1166	.1808
.590	.0988	.1047	.0464
.770		-.1624	
.950	-.2963	-.2884	-.1909

BETA (7) = 10.080 ALPHA (2) = 2.060 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2703	-.2468	.0806
.200	.1868		-.0225
.410	.1809	.1642	.1514
.590	.1475	.1534	.0934
.770		-.1146	
.950	-.2635	-.2546	-.1498

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 652

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (7) = 10.080 ALPHA (3) = 4.150 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1558	-.1196	.0836
.200	.2371		.0325
.410	.2302	.2145	.1387
.590	.1958	.2007	.1446
.770		-.0647	
.950	-.2274	-.2186	-.1166

BETA (7) = 10.080 ALPHA (4) = 5.190 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1048	-.0499	.0856
.200	.2587		.0561
.410	.2548	.2400	.1279
.590	.2154	.2233	.1682
.770		-.0431	
.950	-.2126	-.2019	-.1019

BETA (7) = 10.080 ALPHA (5) = 6.230 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0471	.0138	.0896
.200	.2807		.0788
.410	.2817	.2689	.1271
.590	.2423	.2502	.1931
.770		-.0147	
.950	-.1972	-.1855	-.0834

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (7) = 10.080 ALPHA (6) = 8.330 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0589	.1768	.1081
.200	.3232		.1159
.410	.3291	.3114	.1326
.590	.2967	.2986	.2377
.770		.0403	
.950	-.1585	-.1468	-.0518

BETA (7) = 10.080 ALPHA (7) = 10.440 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1695	.3360	.1399
.200	.3734		.1704
.410	.3783	.3645	.1478
.590	.3468	.3507	.2897
.770		.1005	
.950	-.1178	-.1089	-.0166

BETA (7) = 10.080 ALPHA (8) = 15.670 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP --

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4185	.6798	.2318
.200	.4823		.3114
.410	.4902	.4745	.1837
.590	.4676	.4646	.4028
.770		.2387	
.950	-.0274	-.0087	.0845

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 654

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE28)

BETA (7) = 10.080 ALPHA (9) = 20.930 Q(PSF) = 43.330 PO/PSF = 2129.3 RUN NO = 178.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .6643 .7399 .3052

.200 .5927 .4239

.410 .5898 .5760 .2385

.590 .5790 .5711 .5093

.770 .3592

.950 .0657 .0873 .1884

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 655

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29) (20 OCT 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

MACH = .170 ELEVON = 10.000
BDFLAP = -11.700 SPOBRK = .000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = .120 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.3786 -.8262 -.7454
.200 -.0690 -.1360
.410 -.0917 -.1104 .0129
.590 -.1252 -.1311 -.1380
.770 -.1380
.950 -.3194 -.2780 -.2277

BETA (1) = -10.090 ALPHA (2) = 2.210 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.3070 -.6920 -.6327
.200 .0000 -.0671
.410 -.0217 -.0533 .0010
.590 -.0779 -.0799 -.0957
.770 -.0928
.950 -.2853 -.2438 -.1934

BETA (1) = -10.090 ALPHA (3) = 4.260 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
.040 -.2425 -.5577 -.5213
.200 .0611 -.0038
.410 .0375 .0099 .0049
.590 -.0265 -.0373 -.0471
.770 -.0471
.950 -.2503 -.2052 -.1590

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (1) = -10.090 ALPHA (4) = 5.330 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2063	-.4923	-.4648
.200	.0977		.0227
.410	.0621	.0395	.0168
.590	-.0038	-.0098	-.0216
.770		-.0235	
.950	-.2299	-.1867	-.1375

BETA (1) = -10.090 ALPHA (5) = 6.380 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1693	-.4262	-.4115
.200	.1304		.0573
.410	.0958	.0692	.0296
.590	.0208	.0128	.0010
.770		.0000	
.950	-.2106	-.1663	-.1260

BETA (1) = -10.090 ALPHA (6) = 8.470 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0914	-.3146	-.2960
.200	.2013		.1056
.410	.1530	.1461	.0543
.590	.0780	.0711	.0493
.770		.0474	
.950	-.1671	-.1258	-.0914

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 657

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (1) = -10.090 ALPHA (7) = 10.590 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0157	-.1978	-.1890
.200	.2509		.1403
.410	.2391	.2213	.0810
.590	.1423	.1423	.1116
.770		.1077	
.950	-.1151	-.0826	-.0580

BETA (1) = -10.090 ALPHA (8) = 15.840 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1618	.0562	.0484
.200	.3572		.3168
.410	.3819	.3947	.1382
.590	.3000	.3069	.2704
.770		.2576	
.950	.0079	.0040	.0464

BETA (1) = -10.090 ALPHA (9) = 21.050 Q(PSF) = 43.177 PO/PSF = 2127.0 RUN NO = 179.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2933	.2362	.2353
.200	.4370		.4498
.410	.4941	.5177	.2106
.590	.4656	.4735	.4301
.770		.3986	
.950	.0945	.0807	.1191

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 658

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (2) = -5.050 ALPHA (1) = .130 Q(PSF) = 43.168 P0/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4558	-.7093	-.5266
.200	.0158		-.1375
.410	-.0402	-.0520	.1361
.590	-.0501	-.0668	-.0854
.770		-.0962	
.950	-.2721	-.2534	-.1965

BETA (2) = -5.050 ALPHA (2) = 2.200 Q(PSF) = 43.168 P0/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3798	-.6032	-.4251
.200	.0573		-.0816
.410	.0119	-.0009	.0978
.590	.0000	-.0147	-.0314
.770		-.0511	
.950	-.2332	-.2145	-.1594

BETA (2) = -5.060 ALPHA (3) = 4.270 Q(PSF) = 43.168 P0/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2937	-.4942	-.3311
.200	.1016		-.0198
.410	.0631	.0503	.0848
.590	.0493	.0375	.0217
.770		-.0038	
.950	-.1925	-.1719	-.1149

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 659

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (2) = -5.060 ALPHA (4) = 5.350 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2515	-.4333	-.2790
.200	.1243		.0158
.410	.0868	.0819	.0809
.590	.0740	.0671	.0464
.770		.0178	
.950	-.1709	-.1513	-.0923

BETA (2) = -5.050 ALPHA (5) = 6.380 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2114	-.3874	-.2271
.200	.1510		.0503
.410	.1145	.1105	.0809
.590	.1017	.0918	.0730
.770		.0424	
.950	-.1504	-.1288	-.0708

BETA (2) = -5.050 ALPHA (6) = 8.460 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1312	-.2791	-.1193
.200	.2099		.1188
.410	.1644	.1624	.0970
.590	.1535	.1475	.1297
.770		.0871	
.950	-.1065	-.0887	-.0246

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 660

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (2) = -5.060 ALPHA (7) = 10.550 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0562	-.1914	-.0039
.200	.2615		.1832
.410	.2149	.2209	.1169
.590	.2040	.2080	.1832
.770		.1357	
.950	-.0661	-.0454	.0178

BETA (2) = -5.050 ALPHA (8) = 15.850 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1157	.0297	.3075
.200	.3579		.3530
.410	.3362	.3747	.1720
.590	.3332	.3688	.3263
.770		.2502	
.950	.0415	.0732	.1355

BETA (2) = -5.050 ALPHA (9) = 21.070 Q(PSF) = 43.168 PO/PSF = 2126.9 RUN NO = 180.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2553	.2257	.5608
.200	.4268		.4761
.410	.4298	.5185	.2415
.590	.4593	.5165	.4780
.770		.3667	
.950	.1488	.1902	.2582

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 661

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (3) = -2.000 ALPHA (1) = .130 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4619	-.7303	-.3049
.200	.0317		-.1214
.410	-.0098	-.0424	.1684
.590	-.0138	-.0414	-.0612
.770		-.1075	
.950	-.2684	-.2625	-.2102

BETA (3) = -2.010 ALPHA (2) = 2.220 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3739	-.6134	-.1894
.200	.0719		-.0559
.410	.0414	.0128	.1271
.590	.0414	.0138	-.0088
.770		-.0647	
.950	-.2287	-.2188	-.1658

BETA (3) = -2.000 ALPHA (3) = 4.290 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2890	-.4995	-.0727
.200	.1184		.0109
.410	.0947	.0661	.1095
.590	.0908	.0730	.0434
.770		-.0196	
.950	-.1887	-.1760	-.1229

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 662

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (3) = -2.000 ALPHA (4) = 5.330 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2509	-.4467	-.0038
.200	.1452		.0405
.410	.1195	.0938	.0997
.590	.1175	.1037	.0721
.770		.0040	
.950	-.1682	-.1545	-.0993

BETA (3) = -2.000 ALPHA (5) = 6.360 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2115	-.3896	.0514
.200	.1718		.0760
.410	.1481	.1234	.1007
.590	.1491	.1343	.1017
.770		.0267	
.950	-.1456	-.1308	-.0747

BETA (3) = -2.000 ALPHA (6) = 8.470 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1280	-.2817	.1790
.200	.2215		.1483
.410	.2017	.1869	.1157
.590	.2037	.1988	.1562
.770		.0742	
.950	-.1044	-.0886	-.0285

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 663

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (3) = -2.010 ALPHA (7) = 10.550 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0543	-.1778	.2905
.200	.2687		.2221
.410	.2518	.2459	.1428
.590	.2548	.2598	.2132
.770		.1229	
.950	-.0642	-.0503	.0188

BETA (3) = -2.010 ALPHA (8) = 15.850 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1106	.0464	.4940
.200	.3764		.3487
.410	.3853	.4021	.2025
.590	.3794	.4060	.3636
.770		.2371	
.950	.0395	.0672	.1433

BETA (3) = -2.010 ALPHA (9) = 21.080 Q(PSF) = 43.171 PO/PSF = 2126.9 RUN NO = 181.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2375	.2464	.5496
.200	.4682		.4230
.410	.4790	.5163	.2640
.590	.4917	.5261	.4868
.770		.3641	
.950	.1443	.1835	.2591

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (4) = .020 ALPHA (1) = .100 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4536	-.7324	-.1158
.200	.0355		-.1030
.410	.0059	-.0353	.1833
.590	.0138	-.0176	-.0471
.770		-.1237	
.950	-.2631	-.2641	-.2150

BETA (4) = .010 ALPHA (2) = 2.200 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3635	-.5925	.0059
.200	.0759		-.0294
.410	.0562	.0207	.1460
.590	.0671	.0424	.0069
.770		-.0756	
.950	-.2279	-.2250	-.1690

BETA (4) = .020 ALPHA (3) = 4.260 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2771	-.4747	.1273
.200	.1253		.0335
.410	.1115	.0829	.1332
.590	.1213	.1026	.0622
.770		-.0353	
.950	-.1887	-.1808	-.1218

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 665

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE (RFFE29)

BETA (4) = .020 ALPHA (4) = 5.350 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2371	-.4123	.1866
.200	.1511		.0741
.410	.1442	.1185	.1284
.590	.1491	.1373	.0918
.770		-.0098	
.950	-.1672	-.1584	-.0984

BETA (4) = .030 ALPHA (5) = 6.360 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1938	-.3611	.2390
.200	.1788		.1067
.410	.1709	.1491	.1294
.590	.1778	.1659	.1175
.770		.0158	
.950	-.1476	-.1387	-.0718

BETA (4) = .030 ALPHA (6) = 8.460 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-I DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1174	-.2595	.3229
.200	.2377		.1832
.410	.2238	.2100	.1456
.590	.2298	.2278	.1763
.770		.0683	
.950	-.1036	-.0967	-.0286

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 666 PAC 36

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (4) = .030 ALPHA (7) = 10.560 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0443	-.1657	.3841
.200	.2821		.2465
.410	.2782	.2722	.1673
.590	.2831	.2890	.2386
.770		.1178	
.950	-.0601	-.0512	.0198

BETA (4) = .030 ALPHA (8) = 15.780 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0919	.0494	.4883
.200	.4003		.2955
.410	.4033	.4131	.2006
.590	.4072	.4191	.3746
.770		.2382	
.950	.0494	.0652	.1433

BETA (4) = .030 ALPHA (9) = 21.060 Q(PSF) = 43.177 PO/PSF = 2126.9 RUN NO = 182.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2687	.3051	.4646
.200	.4941		.4459
.410	.5059	.5295	.2628
.590	.5177	.5335	.5020
.770		.3721	
.950	.1565	.1831	.2687

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 667

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (5) = 2.040 ALPHA (1) = .080 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4455	-.7268	.0780
.200	.0375		-.0668
.410	.0217	-.0157	.1925
.590	.0434	.0197	-.0255
.770		-.1288	
.950	-.2626	-.2714	-.2134

BETA (5) = 2.040 ALPHA (2) = 2.170 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3584	-.5989	.1675
.200	.0788		-.0009
.410	.0719	.0404	.1528
.590	.0946	.0808	.0276
.770		-.0844	
.950	-.2258	-.2287	-.1669

BETA (5) = 2.040 ALPHA (3) = 4.210 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2773	-.4738	.2417
.200	.1318		.0703
.410	.1308	.1100	.1446
.590	.1476	.1347	.0852
.770		-.0394	
.950	-.1875	-.1865	-.1145

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 668

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (5) = 2.040 ALPHA (4) = 5.290 Q(PSF) = 43.213 PQ/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2298	- .4037	.2672
.200	.1637		.1075
.410	.1587	.1400	.1410
.590	.1725	.1656	.1153
.770		-.0117	
.950	-.1669	-.1630	-.0923

BETA (5) = 2.040 ALPHA (5) = 6.350 Q(PSF) = 43.213 PQ/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1891	-.3459	.2911
.200	.1918		.1377
.410	.1859	.1701	.1465
.590	.1957	.1937	.1426
.770		.0157	
.950	-.1469	-.1401	-.0686

BETA (5) = 2.040 ALPHA (6) = 8.420 Q(PSF) = 43.213 PQ/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1219	-.2448	.3395
.200	.2457		.1776
.410	.2388	.2289	.1589
.590	.2506	.2516	.1954
.770		.0701	
.950	-.1052	-.0993	-.0216

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-75!)

PAGE 669

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (5) = 2.040 ALPHA (7) = 10.520 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0543	-.1559	.3834
.200	.2982		.2091
.410	.2923	.2913	.1704
.590	.3022	.3062	.2576
.770		.1149	
.950	-.0602	-.0562	.0258

BETA (5) = 2.040 ALPHA (8) = 15.770 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0996	.1065	.4132
.200	.4172		.3116
.410	.4112	.4191	.2032
.590	.4201	.4280	.3895
.770		.2485	
.950	.0473	.0611	.1460

BETA (5) = 2.030 ALPHA (9) = 21.050 Q(PSF) = 43.213 PO/PSF = 2126.9 RUN NO = 183.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3292	.3537	.4058
.200	.5149		.4353
.410	.5208	.5365	.2653
.590	.5286	.5434	.5031
.770		.3773	
.950	.1621	.1847	.2692

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (6) = 5.070 ALPHA (1) = .090 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4236	-.6797	.1790
.200	.0544		.0020
.410	.0583	.0366	.2126
.590	.0831	.0732	.0158
.770		-.1349	
.950	-.2728	-.2797	-.1921

BETA (6) = 5.060 ALPHA (2) = 2.190 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3403	-.5325	.1939
.200	.1132		.0443
.410	.1132	.0925	.1811
.590	.1309	.1260	.0699
.770		-.0823	
.950	-.2363	-.2363	-.1451

BETA (6) = 5.060 ALPHA (3) = 4.260 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2751	-.4097	.2288
.200	.1696		.0740
.410	.1647	.1489	.1667
.590	.1795	.1785	.1223
.770		-.0285	
.950	-.2014	-.1965	-.1061

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 671

0A163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (6) = 5.060 ALPHA (4) = 5.300 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2415	-.3455	.2503
.200	.1961		.0916
.410	.1902	.1774	.1557
.590	.2040	.2049	.1468
.770		-.0038	
.950	-.1806	-.1786	-.0795

BETA (6) = 5.060 ALPHA (5) = 6.360 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2061	-.2925	.2700
.200	.2227		.1005
.410	.2158	.2050	.1478
.590	.2257	.2286	.1734
.770		.0207	
.950	-.1620	-.1590	-.0608

BETA (6) = 5.050 ALPHA (6) = 8.450 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1258	-.1818	.2950
.200	.2753		.1135
.410	.2545	.2585	.1620
.590	.2773	.2812	.2270
.770		.0730	
.950	-.1199	-.1170	-.0167

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 672

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (6) = 5.050 ALPHA (7) = 10.540 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0522	-.0492	.2977
.200	.3284		.1711
.410	.3175	.3135	.1622
.590	.3244	.3323	.2829
.770		.1256	
.950	-.0768	-.0699	.0237

BETA (6) = 5.050 ALPHA (8) = 15.810 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1731	.2127	.2928
.200	.4461		.2968
.410	.4352	.4382	.1919
.590	.4402	.4491	.4006
.770		.2522	
.950	.0307	.0455	.1316

BETA (6) = 5.040 ALPHA (9) = 21.080 Q(PSF) = 43.219 PO/PSF = 2127.0 RUN NO = 184.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4255	.5660	.4088
.200	.5513		.4481
.410	.5493	.5513	.2476
.590	.5533	.5641	.5179
.770		.3901	
.950	.1445	.1769	.2712

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 673

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (7) = 10.150 ALPHA (1) = .120 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3597	-.3478	.0771
.200	.1454		-.0719
.410	.1365	.1246	.1850
.590	.1088	.1137	.0574
.770		-.1527	
.950	-.2897	-.2818	-.1783

BETA (7) = 10.150 ALPHA (2) = 2.200 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2494	-.2386	.0897
.200	.1962		-.0176
.410	.1853	.1735	.1518
.590	.1557	.1607	.1055
.770		-.1070	
.950	-.2573	-.2455	-.1424

BETA (7) = 10.150 ALPHA (3) = 4.300 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1416	-.1833	.0908
.200	.2419		.0415
.410	.2370	.2232	.1363
.590	.1985	.2064	.1521
.770		-.0600	
.950	-.2253	-.2105	-.1111

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 674

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (7) = 10.150 ALPHA (4) = 5.320 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0895	-.0413	.0909
.200	.2638		.0632
.410	.2618	.2470	.1245
.590	.2233	.2272	.1739
.770		-.0354	
.950	-.2086	-.1988	-.0945

BETA (7) = 10.150 ALPHA (5) = 6.370 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0393	.0316	.0968
.200	.2883		.0780
.410	.2843	.2735	.1205
.590	.2498	.2557	.1994
.770		-.0058	
.950	-.1938	-.1780	-.0757

BETA (7) = 10.150 ALPHA (6) = 8.460 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0622	.2035	.1235
.200	.3299		.1225
.410	.3369	.3171	.1245
.590	.3003	.3072	.2450
.770		.0474	
.950	-.1545	-.1447	-.0482

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 675

OA163 ORB+OP NOSE GEAR DOOR INNER SURFACE

(RFFE29)

BETA (7) = 10.150 ALPHA (7) = 10.580 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
 .040 .1802 .3614 .1458
 .200 .3792 .1753
 .410 .3832 .3693 .1366
 .590 .3525 .3525 .2951
 .770 .1050
 .950 -.1154 -.1035 -.0128

BETA (7) = 10.150 ALPHA (8) = 15.810 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
 .040 .4219 .6766 .2360
 .200 .4868 .3176
 .410 .4887 .4740 .1731
 .590 .4691 .4651 .4042
 .770 .2399
 .950 -.0245 -.0078 .0865

BETA (7) = 10.150 ALPHA (9) = 21.070 Q(PSF) = 43.197 PO/PSF = 2127.1 RUN NO = 185.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL
 .040 .6666 .7482 .3077
 .200 .5958 .4336
 .410 .5978 .5810 .2340
 .590 .5879 .5810 .5191
 .770 .3677
 .950 .0718 .0944 .1957

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8100 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = -10.000
 BDFLAP = -11.700 SPOBRK = .000
 PHI-N = 66.000 THETAN = 108.000
 PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.100 ALPHA (1) = -.130 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3917 -.8416 -.7607
 .200 -.0769 -.1490
 .410 -.0986 -.1223 .0010
 .590 -.1361 -.1420 -.1509
 .770 -.1499
 .950 -.3275 -.2861 -.2308

BETA (1) = -10.100 ALPHA (2) = 1.950 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3191 -.7115 -.6482
 .200 -.0088 -.0780
 .410 -.0355 -.0612 -.0148
 .590 -.0879 -.0928 -.1027
 .770 -.1057
 .950 -.2964 -.2519 -.1976

BETA (1) = -10.100 ALPHA (3) = 4.040 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.2484 -.5685 -.5361
 .200 .0532 -.0167
 .410 .0306 -.0009 -.0117
 .590 -.0373 -.0441 -.0549
 .770 -.0549
 .950 -.2572 -.2111 -.1630

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 677

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (1) = -10.100 ALPHA (4) = 5.090 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2179	-.5099	-.4823
.200	.0871		.0129
.410	.0554	.0297	-.0019
.590	-.0138	-.0167	-.0315
.770		-.0315	
.950	-.2347	-.1962	-.1528

BETA (1) = -10.100 ALPHA (5) = 6.120 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1779	-.4424	-.4228
.200	.1214		.0464
.410	.0859	.0612	.0099
.590	.0138	.0079	-.0068
.770		-.0108	
.950	-.2173	-.1750	-.1307

BETA (1) = -10.100 ALPHA (6) = 8.250 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1916	.0642	.0958
.200	.1501		.0375
.410	.0642	-.1451	.0405
.590	-.1761	.0415	-.1052
.770		-.1328	
.950	.2449	-.1003	-.3276

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (1) = -10.100 ALPHA (7) = 10.320 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0246	-.2069	-.1990
.200	.2482		.1305
.410	.2265	.2275	.0603
.590	.1335	.1325	.1019
.770		.0959	
.950	-.1212	-.0946	-.0748

BETA (1) = -10.110 ALPHA (8) = 15.570 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1598	.1322	.0326
.200	.3541		.3107
.410	.3738	.3728	.1134
.590	.2959	.3068	.2565
.770		.2525	
.950	.0010	.0010	.0345

BETA (1) = -10.110 ALPHA (9) = 20.810 Q(PSF) = 43.151 PO/PSF = 2127.1 RUN NO = 186.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3150	.2737	.2284
.200	.4371		.4430
.410	.4981	.5139	.1811
.590	.4509	.4706	.4204
.770		.3830	
.950	.0896	.0778	.1142

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 679

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (2) = -5.070 ALPHA (1) = -.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4715	-.7225	-.5463
.200	.0059		-.1506
.410	-.0521	-.0649	.1146
.590	-.0630	-.0758	-.0954
.770		-.1073	
.950	-.2815	-.2648	-.2087

BETA (2) = -5.070 ALPHA (2) = 1.970 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3919	-.6169	-.4341
.200	.0523		-.0913
.410	.0010	-.0098	.0749
.590	-.0098	-.0235	-.0402
.770		-.0579	
.950	-.2406	-.2239	-.1670

BETA (2) = -5.070 ALPHA (3) = 4.020 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3068	-.5035	-.3461
.200	.0938		-.0304
.410	.0563	.0444	.0632
.590	.0415	.0306	.0128
.770		-.0098	
.950	-.2006	-.1809	-.1229

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 680

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (2) = -5.070 ALPHA (4) = 5.050 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2682	-.4575	-.2958
.200	.1148		.0030
.410	.0772	.0693	.0594
.590	.0663	.0544	.0386
.770		.0109	
.950	-.1804	-.1627	-.1005

BETA (2) = -5.070 ALPHA (5) = 6.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2244	-.4046	-.2402
.200	.1393		.0366
.410	.1028	.0998	.0622
.590	.0948	.0860	.0652
.770		.0336	
.950	-.1565	-.1378	-.0817

BETA (2) = -5.070 ALPHA (6) = 8.190 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1397	-.3001	-.1259
.200	.2005		.1106
.410	.1541	.1521	.0741
.590	.1462	.1402	.1195
.770		.0800	
.950	-.1161	-.0964	-.0354

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 681

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (2) = -5.070 ALPHA (7) = 10.280 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0658	-.1974	-.0235
.200	.2553		.1784
.410	.2090	.2119	.1015
.590	.2011	.1991	.1755
.770		.1281	
.950	-.0736	-.0530	.0099

BETA (2) = -5.070 ALPHA (8) = 15.520 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1072	.0197	.2892
.200	.3492		.3433
.410	.3296	.3630	.1564
.590	.3237	.3610	.3237
.770		.2381	
.950	.0344	.0620	.1279

BETA (2) = -5.070 ALPHA (9) = 20.800 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 187.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2454	.2189	.5467
.200	.4201		.4750
.410	.4220	.5104	.2277
.590	.4515	.5104	.4731
.770		.3592	
.950	.1443	.1865	.2503

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 682

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RF+E30)

BETA (3) = -2.010 ALPHA (1) = -.110 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4770	-.7455	-.3324
.200	.0217		-.1337
.410	-.0216	-.0511	.0928
.590	-.0226	-.0531	-.0718
.770		-.1170	
.950	-.2763	-.2704	-.2213

BETA (3) = -2.010 ALPHA (2) = 1.940 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3927	-.6339	-.2126
.200	.0632		-.0699
.410	.0346	.0030	.0692
.590	.0306	.0020	-.0206
.770		-.0738	
.950	-.2382	-.2283	-.1781

BETA (3) = -2.010 ALPHA (3) = 4.040 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3018	-.5142	-.0835
.200	.1115		-.0038
.410	.0878	.0582	.0651
.590	.0839	.0612	.0345
.770		-.0285	
.950	-.1966	-.1828	-.1278

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 683

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (3) = -2.010 ALPHA (4) = 5.070 Q(PSF) = 43.250 P0/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2607	-.4624	-.0226
.200	.1382		.0346
.410	.1136	.0859	.0662
.590	.1116	.0938	.0632
.770		-.0048	
.950	-.1761	-.1613	-.1092

BETA (3) = -2.010 ALPHA (5) = 6.100 Q(PSF) = 43.250 P0/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2191	-.4038	.0385
.200	.1627		.0680
.410	.1390	.1144	.0700
.590	.1381	.1252	.0878
.770		.0178	
.950	-.1542	-.1385	-.0835

BETA (3) = -2.010 ALPHA (6) = 8.180 Q(PSF) = 43.250 P0/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1386	-.2889	.1647
.200	.2160		.1401
.410	.1924	.1776	.0927
.590	.1963	.1884	.1480
.770		.0651	
.950	-.1100	-.0983	-.0344

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 684

OA163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (3) = -2.010 ALPHA (7) = 10.300 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0666	-.1832	.2773
.200	.2626		.2114
.410	.2478	.2390	.1210
.590	.2488	.2478	.2065
.770		.1170	
.950	-.0685	-.0529	.0089

BETA (3) = -2.010 ALPHA (8) = 15.560 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0995	.0374	.4865
.200	.3664		.3398
.410	.3743	.3920	.1684
.590	.3713	.3969	.3516
.770		.2324	
.950	.0325	.0542	.1349

BETA (3) = -2.010 ALPHA (9) = 20.790 Q(PSF) = 43.250 PO/PSF = 2127.0 RUN NO = 188.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2246	.2383	.5443
.200	.4649		.4100
.410	.4767	.5130	.2226
.590	.4855	.5179	.4776
.770		.3560	
.950	.1403	.1775	.2491

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 685

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (4) = -.030 ALPHA (1) = -.140 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4715	-.7600	-.1250
.200	.0287		-.1181
.410	-.0068	-.0472	.1581
.590	.0030	-.0305	-.0620
.770		-.1339	
.950	-.2737	-.2756	-.2264

BETA (4) = -.030 ALPHA (2) = 1.970 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3791	-.6162	.0010
.200	.0708		-.0421
.410	.0472	.0138	.1210
.590	.0590	.0354	-.0028
.770		-.0881	
.950	-.2351	-.2322	-.1793

BETA (4) = -.030 ALPHA (3) = 4.010 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2943	-.4980	.1156
.200	.1156		.0296
.410	.1047	.0741	.1097
.590	.1146	.0968	.0543
.770		-.0433	
.950	-.1988	-.1899	-.1328

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 686

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (4) = -.030 ALPHA (4) = 5.060 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2493	-.4329	.1665
.200	.1458		.0631
.410	.1330	.1074	.1044
.590	.1448	.1291	.0847
.770		-.0206	
.950	-.1757	-.1678	-.1050

BETA (4) = -.030 ALPHA (5) = 6.110 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2062	-.3751	.2267
.200	.1715		.0996
.410	.1607	.1419	.1025
.590	.1705	.1597	.1124
.770		.0059	
.950	-.1541	-.1473	-.0815

BETA (4) = -.030 ALPHA (6) = 8.190 Q(PSF) = 43.222 PO/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1285	-.2747	.3053
.200	.2285		.1684
.410	.2147	.2019	.1211
.590	.2216	.2206	.1664
.770		.0581	
.950	-.1108	-.1010	-.0333

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DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 687

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (4) = -.030 ALPHA (7) = 10.280 Q(PSF) = 43.222 P0/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0592	-.1778	.3728
.200	.2776		.2340
.410	.2736	.2657	.1487
.590	.2766	.2806	.2260
.770		.1100	
.950	-.0681	-.0622	.0089

BETA (4) = -.030 ALPHA (8) = 15.510 Q(PSF) = 43.222 P0/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0870	.0385	.4862
.200	.3924		.2916
.410	.3993	.4092	.1848
.590	.4013	.4101	.3686
.770		.2312	
.950	.0435	.0553	.1344

BETA (4) = -.040 ALPHA (9) = 20.800 Q(PSF) = 43.222 P0/PSF = 2127.0 RUN NO = 189.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2533	.2955	.4683
.200	.4909		.4408
.410	.5007	.5252	.2484
.590	.5125	.5272	.4928
.770		.3613	
.950	.1512	.1767	.2641

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 688

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (5) = 5.020 ALPHA (1) = -.130 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4410	-.7108	.1729
.200	.0455		-.0108
.410	.0534	.0267	.1858
.590	.0731	.0632	.0069
.770		-.1476	
.950	-.2805	-.2894	-.2057

BETA (5) = 5.020 ALPHA (2) = 1.950 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3547	-.5580	.1962
.200	.1065		.0325
.410	.1055	.0838	.1617
.590	.1213	.1173	.0592
.770		-.0933	
.950	-.2456	-.2505	-.1552

BETA (5) = 5.020 ALPHA (3) = 4.020 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2869	-.4220	.2162
.200	.1592		.0658
.410	.1563	.1395	.1523
.590	.1680	.1690	.1120
.770		-.0391	
.950	-.2095	-.2085	-.1135

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 689

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (5) = 5.020 ALPHA (4) = 5.110 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2517	-.3609	.2458
.200	.1876		.0859
.410	.1816	.1688	.1421
.590	.1974	.2004	.1392
.770		-.0127	
.950	-.1888	-.1868	-.0885

BETA (5) = 5.020 ALPHA (5) = 6.110 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2172	-.3087	.2615
.200	.2102		.0918
.410	.2092	.1983	.1401
.590	.2200	.2240	.1648
.770		.0128	
.950	-.1681	-.1671	-.0707

BETA (5) = 5.020 ALPHA (6) = 8.200 Q(PSF) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1389	-.1941	.2888
.200	.2671		.1068
.410	.2582	.2562	.1424
.590	.2710	.2760	.2216
.770		.0633	
.950	-.1261	-.1212	-.0236

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (5) = 5.020 ALPHA (7) = 10.280 Q(PSE) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0648	-.0717	.2948
.200	.3215		.1588
.410	.3096	.3086	.1519
.590	.3185	.3234	.2741
.770		.1173	
.950	-.0845	-.0766	.0138

BETA (5) = 5.020 ALPHA (8) = 15.540 Q(PSE) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1658	.2043	.2912
.200	.4382		.2932
.410	.4274	.4303	.1875
.590	.4373	.4442	.3968
.770		.2487	
.950	.0286	.0395	.1283

BETA (5) = 5.020 ALPHA (9) = 20.820 Q(PSE) = 43.212 PO/PSF = 2127.1 RUN NO = 190.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4151	.5729	.4062
.200	.5472		.4417
.410	.5413	.5462	.2406
.590	.5472	.5581	.5108
.770		.3796	
.950	.1400	.1686	.2623

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 691

OA163 ORB+GP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (6) = 10.100 ALPHA (1) = -.110 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .7280 .5640

X/CNL

.040	-.3768	-.3610	.0693
.200	.1376		-.0799
.410	.1307	.1158	.1723
.590	.1000	.1050	.0485
.770		-.1657	
.950	-.2998	-.2920	-.1884

BETA (6) = 10.100 ALPHA (2) = 1.980 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2650	-.2542	.0778
.200	.1852		-.0176
.410	.1783	.1655	.1428
.590	.1428	.1527	.0936
.770		-.1168	
.950	-.2669	-.2542	-.1521

BETA (6) = 10.090 ALPHA (3) = 4.020 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1648	-.1275	.0837
.200	.2324		.0296
.410	.2275	.2128	.1280
.590	.1911	.1980	.1408
.770		-.0696	
.950	-.2325	-.2227	-.1217

0A163 ORB+GP NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (6) = 10.100 ALPHA (4) = 5.080 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.1030	-.0549	.0857
.200	.2561		.0552
.410	.2542	.2374	.1182
.590	.2167	.2226	.1665
.770		-.0451	
.950	-.2169	-.2041	-.1070

BETA (6) = 10.090 ALPHA (5) = 6.130 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0510	.0148	.0916
.200	.2787		.0778
.410	.2797	.2639	.1142
.590	.2403	.2482	.1881
.770		-.0176	
.950	-.2001	-.1884	-.0873

BETA (6) = 10.090 ALPHA (6) = 8.190 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.0523	.1913	.1163
.200	.3243		.1153
.410	.3273	.3145	.1213
.590	.2938	.2977	.2346
.770		.0355	
.950	-.1640	-.1512	-.0559

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 693

OA163 ORB+CP

NOSE GEAR DOOR INNER SURFACE

(RFFE30)

BETA (6) = 10.090 ALPHA (7) = 10.280 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1529	.3373	.1401
.200	.3709		.1647
.410	.3738	.3610	.1332
.590	.3462	.3462	.2861
.770		.0927	
.950	-.1208	-.1130	-.0196

BETA (6) = 10.090 ALPHA (8) = 15.530 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4147	.6793	.2340
.200	.4799		.3090
.410	.4887	.4720	.1738
.590	.4670	.4611	.4009
.770		.2350	
.950	-.0295	-.0157	.0800

BETA (6) = 10.090 ALPHA (9) = 20.780 Q(PSF) = 43.232 PO/PSF = 2127.2 RUN NO = 191.00

SECTION (1) NOSE LND GR DR-1

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.6661	.7380	.3045
.200	.5902		.4266
.410	.5862	.5734	.2217
.590	.5784	.5705	.5045
.770		.3596	
.950	.0621	.0808	.1852

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 694

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31) (20 OCT 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0405

PARAMETRIC DATA

MACH = .170 ELEVON = .000
BDFLAP = -11.700 SPOBRK = .000
PHI-N = 66.000 THETAN = 108.000
PHI-M = 88.000 THETAM = 98.000

BETA (1) = -10.080 ALPHA (1) = .000 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.3486 -.7711 -.7007
.200 -.0477 -.1171
.410 -.0698 -.0901 -.0997
.590 -.1084 -.1123 -.1219
.770 -.1200
.950 -.2917 -.2531 -.2030

BETA (1) = -10.080 ALPHA (2) = 5.210 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.1864 -.4591 -.4398
.200 .1060 .0334
.410 .0769 .0508 -.0303
.590 .0083 .0015 -.0119
.770 -.0110
.950 -.2066 -.1700 -.1257

BETA (1) = -10.070 ALPHA (3) = 10.420 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 -.0090 -.1923 -.1711
.200 .2502 .1476
.410 .2318 .2396 -.0042
.590 .1515 .1563 .1128
.770 .1070
.950 -.1036 -.0727 -.0525

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 695

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (1) = -10.070 ALPHA (4) = 15.660 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2407	.1352	.0557
.200	.3540		.3143
.410	.3792	.3909	.0887
.590	.3095	.3037	.2485
.770		.2591	
.950	.0228	.0160	.0509

BETA (1) = -10.070 ALPHA (5) = 20.880 Q(PSF) = 44.092 PO/PSF = 2117.2

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.3260	.2374	.2394
.200	.4243		.4358
.410	.4869	.5138	.1681
.590	.4493	.4801	.4387
.770		.3925	
.950	.0959	.0785	.1180

BETA (2) = -5.030 ALPHA (1) = .000 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.4241	-.6620	-.4957
.200	.0297		-.1194
.410	-.0255	-.0372	.1879
.590	-.0333	-.0507	-.0662
.770		-.0797	
.950	-.2451	-.2287	-.1735

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (2) = -5.030 ALPHA (2) = 5.200 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2308	-.4080	-.2560
.200	.1346		.0268
.410	.0967	.0890	.2677
.590	.0860	.0724	.0588
.770		.0297	
.950	-.1534	-.1330	-.0749

BETA (2) = -5.030 ALPHA (3) = 10.410 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0449	-.1716	.0044
.200	.2655		.1908
.410	.2189	.2247	.3276
.590	.2082	.2102	.1869
.770		.1403	
.950	-.0555	-.0313	.0248

BETA (2) = -5.030 ALPHA (4) = 15.650 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1234	.0363	.3083
.200	.3528		.3441
.410	.3344	.3721	.3489
.590	.3295	.3654	.3295
.770		.2473	
.950	.0499	.0828	.1428

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 697

0A163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (2) = -5.040 ALPHA (5) = 20.890 Q(PSF) = 44.004 PO/PSF = 2115.0

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL	.0920	.3280	.5640
X/CNL			
.040	.2548	.2259	.5544
.200	.4205		.4667
.410	.4244	.5111	.3261
.590	.4552	.5082	.4696
.770		.3569	
.950	.1556	.1903	.2558

BETA (3) = .000 ALPHA (1) = -.010 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL	.0920	.3280	.5640
X/CNL			
.040	-.4213	-.6872	-.0582
.200	.0518		-.0794
.410	.0199	-.0235	-.1844
.590	.0295	-.0013	-.0293
.770		-.1006	
.950	-.2393	-.2393	-.1921

BETA (3) = .000 ALPHA (2) = 5.150 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL	.0920	.3280	.5640
X/CNL			
.040	-.2130	-.3920	.2033
.200	.1618		.0874
.410	.1512	.1270	.0044
.590	.1599	.1454	.1029
.770		-.0003	
.950	-.1476	-.1418	-.0803

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (3) = .000 ALPHA (3) = 10.360 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0311	-.1462	.3856
.200	.2826		.2412
.410	.2816	.2787	.1276
.590	.2826	.2874	.2393
.770		.1257	
.950	-.0484	-.0368	.0323

BETA (3) = .000 ALPHA (4) = 15.640 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1002	.0605	.4796
.200	.3964		.2890
.410	.3974	.4090	.2193
.590	.4022	.4158	.3741
.770		.2377	
.950	.0567	.0741	.1477

BETA (3) = .000 ALPHA (5) = 20.910 Q(PSF) = 44.164 PO/PSF = 2114.8

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.2760	.3030	.4494
.200	.4898		.4291
.410	.5004	.5178	.2847
.590	.5110	.5245	.4889
.770		.3627	
.950	.1585	.1874	.2673

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 699

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (4) = 5.030 ALPHA (1) = -.010 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3958	-.6413	.1897
.200	.0714		.0199
.410	.0752	.0539	.2518
.590	.0966	.0888	.0345
.770		-.1145	
.950	-.2469	-.2537	-.1696

BETA (4) = 5.030 ALPHA (2) = 5.200 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.2191	-.3155	.2597
.200	.2017		.0924
.410	.1959	.1852	.2655
.590	.2094	.2113	.1553
.770		.0073	
.950	-.1632	-.1584	-.0650

BETA (4) = 5.020 ALPHA (3) = 10.410 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0429	-.0400	.3008
.200	.3260		.1768
.410	.3182	.3134	.2892
.590	.3231	.3366	.2785
.770		.1265	
.950	-.0670	-.0583	.0296

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 700

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (4) = 5.020 ALPHA (4) = 15.650 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1745	.2247	.2837
.200	.4383		.2905
.410	.4306	.4296	.2866
.590	.4383	.4470	.3948
.770		.2537	
.950	.0402	.0576	.1378

BETA (4) = 5.020 ALPHA (5) = 20.900 Q(PSF) = 44.108 PO/PSF = 2116.3

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4192	.5776	.4009
.200	.5450		.4355
.410	.5383	.5440	.2367
.590	.5450	.5555	.5104
.770		.3808	
.950	.1522	.1811	.2684

BETA (5) = 10.060 ALPHA (1) = .000 Q(PSF) = 44.046 PO/PSF = 2116.4

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.3227	-.3092	.0841
.200	.1569		-.0556
.410	.1521	.1385	.2181
.590	.1171	.1278	.0714
.770		-.1330	
.950	-.2675	-.2540	-.1601

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 20 OCT 76

TABULATED PRESSURE DATA - 0A163 (NAAL-751)

PAGE 701

0A163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (5) = 10.060 ALPHA (2) = 5 200 Q(PSF) = 44.046 PO/PSF = 2116.4

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	-.0680	- .0139	.0965
.200	.2691		.0781
.410	.2701	.2526	.2197
.590	.2303	.2342	.1818
.770		-.0226	
.950	-.1917	- .1782	- .0835

BETA (5) = 10.070 ALPHA (3) = 10.430 Q(PSF) = 44.046 PO/PSF = 2116.4

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.1832	.3630	.1504
.200	.3736		.1784
.410	.3756	.3640	.2460
.590	.3504	.3485	.2895
.770		.1078	
.950	-.0996	-.0938	-.0042

BETA (5) = 10.070 ALPHA (4) = 15 660 Q(PSF) = 44.046 PO/PSF = 2116.4

SECTION (1) NOSE LND GR DR-1 DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040	.4297	.6636	.2316
.200	.4780		.3079
.410	.4838	.4713	.2760
.590	.4655	.4597	.3959
.770		.2383	
.950	-.0177	.0005	.0875

DATE 20 OCT 76

TABULATED PRESSURE DATA - OA163 (NAAL-751)

PAGE 702

OA163 ORB+GP+SS NOSE GEAR DOOR INNER SURFACE

(RFFE31)

BETA (5) = 10.070 ALPHA (5) = 20.900 Q(PSF) = 44 046 P0/PSF = 2116.4

SECTION (1) NOSE LND GR DR-I

DEPENDENT VARIABLE CP

Y/BNL .0920 .3280 .5640

X/CNL

.040 .6595 .7309 3064

.200 .5852 .4212

.410 .5871 .5688 3266

.590 .5765 .5649 5032

.770 .3585

.950 .0729 .0989 .1925